

Research Interests

Environmental History, History of Science & Technology,
Maintenance & Repair, Infrastructure Studies, Material History, Anthropocene

Current Research and Writing

- Cultures and Costs of Maintenance. The Rise of Creosote and its Precarious Legacy [Postdoc Project; DFG funded "Eigene Stelle"]

Education

- 4/2015 – 7/2019 **PhD (Dr. phil.) in Modern and Contemporary History**
LUDWIG-MAXIMILIANS-UNIVERSITY MUNICH / RACHEL CARSON CENTER FOR ENVIRONMENT AND SOCIETY
PhD Thesis: *Die Geburt des Geoengineerings. Großbauprojekte in der Frühphase des Anthropozäns (1850-1950). [The Birth of Geoengineering. Large-scale Engineering Projects in the Early Stage of the Anthropocene]*
Supervisors: Prof. Dr. Helmuth Trischler & Prof. Dr. Christof Mauch
defended in July 2019
- 10/2011 – 3/2014 **M.A. in History ("with distinction")**
UNIVERSITY OF POTSDAM
M.A. Thesis: *China als Impulsgeber einer europäischen Moderne. Kulturelle Begegnungen aus drei Jahrhunderten*
- 2/2013 – 7/2013 **M.A.-Erasmus-Programme**
UNIVERSITY OF ZURICH (UFSP Asia & Europe) & UNIVERSITY OF BERN (Oeschger Centre for Climate Change Research)
- 10/2007 – 7/2011 **B.A. in History and German Philology**
UNIVERSITY OF POTSDAM
B.A. Thesis: *Asien-Kompilationen am Beginn der Wissensrevolution der Aufklärung – Studien zu Athanasius Kirchers China Illustrata (1667).*

Employment

- Since 12/2021 **Postdoctoral Researcher**
(Wissenschaftlicher Mitarbeiter / DFG "Eigene Stelle")
DEUTSCHES MUSEUM MUNICH – RESEARCH INSTITUT FOR THE HISTORY OF SCIENCE AND TECHNOLOGY
- Spring 2022 **Lecturer**
KARLSRUHE INSTITUTE OF TECHNOLOGY (KIT) – INSTITUTE OF TECHNOLOGY FUTURES (ITZ), DEPARTMENT OF HISTORY
- 5/2019 – 11/2021 **Scholar in Residence (5/2020-11/2021) /**
Postdoctoral Guest Researcher (5/2019-4/2020)
DEUTSCHES MUSEUM MUNICH – RESEARCH INSTITUT FOR THE HISTORY OF SCIENCE AND TECHNOLOGY
- 4/2016 – 4/2019 **Research Fellow (Wissenschaftlicher Mitarbeiter)**
DEUTSCHES MUSEUM MUNICH – RESEARCH INSTITUT FOR THE HISTORY OF SCIENCE AND TECHNOLOGY
- 4/2017 **Doctoral Fellow**
GERMAN HISTORICAL INSTITUTE, WASHINGTON D.C.
- 4/2014 – 7/2014 **Marie-Curie-Fellow, IRSES – "WORLD BRIDGES"**
CENTRO DE INVESTIGACIONES FILISÓFICAS, BUENOS AIRES /

UNIVERSITY OF POTSDAM

ESR in the EU-FP7 Programme “WORLDBRIDGES – Philosophy of History and Globalisation of Knowledge. Cultural Bridges Between Europe and Latin America”

- Research stay at the *Centro de Investigaciones Filosóficas*, Buenos Aires, Argentina (4/2014 – 7/2014)
- Member of the Working Group *Production and Circulation of Knowledge* (2014-2017)

7/2010 – 3/2015

Student Assistant – Research & Teaching

UNIVERSITY OF POTSDAM – HISTORICAL INSTITUTE, CHAIR
KULTURGESCHICHTE DER NEUZEIT (Prof. Dr. Dr. h.c. Günther Lottes)

Publications

Books & Edited Volumes

Beyond the Lab and the Field: Infrastructures as Places of Knowledge Production Since the Late Nineteenth Century, ed. with Eike-Christian Heine, Pittsburgh: University of Pittsburgh Press, 2022. [Intersections: Histories of Environment, Science, and Technology in the Anthropocene, ed. by Sarah Elkind & Finn Arne Jørgensen].

Die Geburt des Geoengineerings. Großbauprojekte in der Frühphase des Anthropozäns, Wallstein: Göttingen, 2021 [Deutsches Museum. Abhandlungen und Berichte – Neue Folge, Bd. 34].

Jean Henri Samuel Formey – Wissensmultiplikator der Berliner Aufklärung, ed. with Jannis Götze, Hannover: Wehrhahn, 2016 [Aufklärung und Moderne 36].

Articles in Peer-Reviewed Journals and Edited Volumes

“Empire, Extraction and Externalization. Wood Impregnation in Early 20th Century Bosnia and its Precarious Legacy,” In *Environmental Histories of the Dinaric Karst*, edited by Borna Fürst-Bjeliš et al. (forthcoming).

“Exploring the Earth through its Anthropogenic Scars. Geology and the Construction of the Panama Canal,” in: *Beyond the Lab and the Field: Infrastructures as Places of Knowledge Production Since the Late Nineteenth Century*, ed. by Eike-Christian Heine and Martin Meiske [Pittsburgh: University of Pittsburgh Press, 2022], 43–62.

(with Eike-Christian Heine): “Scientific Bonanzas: Infrastructures as Places of Knowledge Production,” in: *Beyond the Lab and the Field: Infrastructures as Places of Knowledge Production Since the Late Nineteenth Century*, ed. by Eike-Christian Heine and Martin Meiske [Pittsburgh: Pittsburgh University Press, 2022], 3–20.

(with Christian Zumbrägel) “Holz im Zeitalter von Kohle und Stahl. Zur Persistenz und Wandelbarkeit eines Werkstoffes in der Hochindustrialisierung,” *Technikgeschichte* 88, no. 3 (2021), 251–286, doi.org/10.5771/0040-117X-2021-3-251

(with Jeroen Oomen) “Proactive and Reactive Geoengineering: Engineering the Climate and the Lithosphere,” *WIREs Climate Change* 12, no. 6 (2021), <https://doi.org/10.1002/wcc.732> [open access]

Articles in Journals, Edited Volumes, and Miscellaneous Publications

“Geologie,” *Wirtschaft und Wissenschaft: Naturwissenschaften und Medizin*, ed. by Michael C. Schneider and Heiner Fangerau (volume in the handbook series on economic history, ed. by Marcel Boldorf and Christian Kleinschmidt) (forthcoming).

“Technikgeschichte,” *Clio-Guides – Handbuch zu digitalen Ressourcen für die Geschichtswissenschaft*, 3., völlig neu bearb. Aufl., Berlin 2023 (forthcoming).

“The Road to Nowhere” (documentary short film about the construction of the Fontana Dam by the Tennessee Valley Authority and related regional conflicts) – RCC workshop Envisioning Environments – Visual Media for the Environmental Humanities, 18 July 2017.

(with Helmuth Trischler) “Die Geburt des Geoengineerings,” blog post for the DFG web page *KlimaTaucher – Beiträge aus der Klima- und Meeresforschung*, 31 May 2017.

(with Jannis Götze) Die Hebamme Rousseaus. Formeys Emile Chrétien im Kontext europäischer Erziehungsdebatten des 18. Jahrhunderts, in: *Jean Henri Samuel Formey – Wissensmultiplikator der Berliner Aufklärung*, ed. by Jannis Götze and Martin Meiske, Hannover 2016, 123–140.

Jean Henri Samuel Formey als Enzyklopädist, in: *Jean Henri Samuel Formey – Wissensmultiplikator der Berliner Aufklärung*, ed. by Jannis Götze and Martin Meiske, Hannover 2016, 39–52.

(with Jannis Götze) Einleitung, in: *Jean Henri Samuel Formey – Wissensmultiplikator der Berliner Aufklärung*, ed. by Jannis Götze and Martin Meiske, Hannover 2016, 7–24.

Book Reviews

Sara B. Pritchard / Carl A. Zimring, Technology and the Environment in History, In *Technikgeschichte* 88, no. 4 (2022), 415–16.

Štanzel, Arnošt, Wasserträume und Wasserräume im Staatssozialismus. Ein umwelthistorischer Vergleich anhand der tschechoslowakischen und rumänischen Wasserwirtschaft 1948–1989. In *Neue Politische Literatur. Berichte aus Geschichts- und Politikwissenschaft* 64 (2019), 192–94.

Lina Schröder, Der Rhein-(Maas-)Schelde-Kanal als geplante Infrastrukturzelle von 1946 bis 1986. Eine Studie zur Infrastruktur- und Netzwerk-Geschichte, In *Historische Zeitschrift* 308, no. 1 (2019), 272–73.

Christoph Rauhut, Die Praxis der Baustelle um 1900. Das Zürcher Stadthaus. In *Technikgeschichte* 85, no. 3 (2018), 230–31.

Carl A. Zimring, Aluminum Upcycled. Sustainable Design in Historical Perspective. In *ICON: Journal of the International Committee for the History of Technology* 23 (2017), 176–78.

Eike-Christian Heine, Vom Großen Graben. Die Geschichte des Nord-Ostsee-Kanals. In *Neue Politische Literatur. Berichte aus Geschichts- und Politikwissenschaft* 61, no. 1 (2016), 107–109.

Conference Reports

European Infrastructures and Transnational Protest Movements, Workshop, 12-13 December 2019, Kerschensteiner Kolleg of the Deutsches Museum, Munich, published on *Seeing the Woods – A blog by the Rachel Carson Center*, 30 January 2020.

The Multifaceted Relationship between Fear and Technology, Interdisciplinary Workshop, 10–12 October 2018, Max Planck Institute for Human Development, Berlin, published on *H-Soz-Kult*, 23 November 2018.

Awards

ESEH Tallinn Dissertation Prize 2021 – „highly commended“ (Top 4)

Turriano ICOHTEC Prize 2021 – „honourable mention“ (Top 3)

ESEH Poster Prize 2015 – 1st Prize

Organized Workshops & Panels (Selection)

Panel: Economic strategies and their environmental impact in the Northern Dinaric Alps in the 19th and 20th centuries (organized with Meta Remec, Ivan Brlić, and Željko Oset), Bern, 12th Biennial European Society for Environmental History (ESEH) Conference, 22 – 26 August 2023.

Panel: White Coal Revisited. The Promises of Participation and Clean Energy from High Modernity to the Age of Climate Crisis (organized with Annina Boogen, Sibylle Lustenberger and Fabian Zimmer), Aarhus, Aarhus University, 10th Tensions of Europe Conference “Technology, Environment and Resources,” 29 June – 1 July 2022.

Panel: Scientific Bonanzas – Infrastructures as boundary places of environmental knowledge production (with Eike-Christian Heine, TU Braunschweig), 10th Biennial European Society for Environmental History (ESEH) Conference “Boundaries in/of Environmental History”, Tallinn, Estonia, 21–25 August 2019.

Panel: Scientific Bonanzas – Infrastrukturen als Orte der Produktion von Umweltwissen, with Eike-Christian Heine (TU Braunschweig), Jahrestagung der Gesellschaft für die Geschichte der Wissenschaften, der Medizin und der Technik (GWMT) 2018, Bochum, 14 September 2018.

Workshop: Scientific Bonanzas – Infrastructures as Places of Knowledge Production, with Eike-Christian Heine (TU Braunschweig), Deutsches Museum, München 15–16 September 2017.

Panel: Inside Infrastructure: Altered Landscapes and Engineered Environments, with Felix Mauch (TU München) – Chicago, IL, 2017 Conference of the American Society for Environmental History (ASEH), 30 March 2017.

Workshop: Locating and Reorganizing Global Spheres. Scientific Experts, the Natural Environment and Transcontinental Fieldwork, with Robert-Jan Wille (LMU), Rachel Carson Center, München, 22 March 2017.

Workshop: Jean Henri Samuel Formey – Wissensmultiplikator der Berliner Aufklärung, with Jannis Götze (Universität Potsdam), Universität Potsdam, Historisches Institut, 20–21 September 2013.

Talks (Selection)

Bern, 12th Biennial European Society for Environmental History (ESEH) Conference, 22 – 26 August 2023: Empire, Extraction, and Externalization. Wood Impregnation in Early 20th Century Bosnia and Herzegovina and its Precarious Legacy

Consortium for History of Science, Technology and Medicine – Working Group Engineering Studies, 18 November 2022: Beyond the Lab and the Field. Infrastructures As Places of Knowledge Production since the Late Nineteenth Century (Online Book Discussion, together with Eike-Christian Heine)

Hannover, Herrenhausen Symposium, “Materiality and the History of Infrastructure,” 21 July 2022: Materialities of Maintenance. An Envirotechnical Analysis of Knowledge, Labor, and Toxicity in Railway Infrastructures

Aarhus, Aarhus University, 10th Tensions of Europe Conference “Technology, Environment and Resources”, 29 June – 1 July 2022: How Green was the New Deal? Hydropower in the Tennessee Valley between Power, Participation and Intensification

Berlin, Deutsches Technikmuseum, VDI Arbeitskreis Technikgeschichte, 28 April 2022: Kulturen und Kosten der Wartung. Der Aufstieg von Kreosot und sein prekäres Erbe

Lugano, Università della Svizzera italiana, Laboratorio di Storia delle Alpi (LabiSAIp), Workshop: “Communication Maintenance in Longue Durée,” 24/25 February 2022: The Hidden Cost of Maintenance. Reflections on the Persistence and Long-term effects of Railway Tie Impregnation for Environment and Society

Tübingen, Universität Tübingen, Kolloquium Neuere Geschichte (Lehrstuhl Prof. Ewald Frie), 7 February 2022: “Unfortunately, soils are made by nature and not by man...” – Ein umwelt- und technikgeschichtlicher Blick auf Infrastrukturen in der Frühphase des Anthropozäns

Hannover, Herrenhausen-Symposium, „Material Assemblages. Toward a New History of Infrastructure“, 15 December 2021: Toxic Traces of Maintenance and Repair. Exploring the Rise of Creosote and its Precarious Legacy in Europe

Karlsruhe, Karlsruher Institut für Technologie (KIT), “Technikgeschichte über Mittag,” Online-Vortragsreihe der Gesellschaft für Technikgeschichte (GTG), 3 December 2021: Von Bahnmeistern, Streckenläufern und Rottenführern. Was heißt und zu welchem Ende studiert man Wartungsgeschichte?

Wien, Universität Wien / Technisches Museum Wien, gemeinsame Jahrestagung der Gesellschaft für Technikgeschichte (GTG) und der Gesellschaft für die Geschichte der Wissenschaften, der Medizin und der Technik (GWMT), 17 September 2021: Kreosot und die Lebenszyklen der Technik

Esch-sur-Alzette, University of Luxembourg, The Luxembourg Centre for Contemporary and Digital History (C²DH), Workshop: “Histories of Maintenance and Repair,” 3 September 2021: Cultures and Costs of Maintenance. The Rise of Creosote and its Precarious Legacy

Bielefeld, Universität Bielefeld, Kolloquium Gesellschaft – Wissen – Umwelt (GWU), 15 June 2021: Die Geburt des Geoengineerings. Schichtarbeiter im Schatten imperialer Infrastrukturen

München, Deutsches Museum, Gemeinsames Oberseminar des Deutschen Museums und der Professur für Technikgeschichte der TUM, 27 July 2020: Kulturen und Kosten der Wartung. Der Aufstieg von Kreosot und sein prekäres Erbe

München, Deutsches Museum, Forschungsinstitut für Wissenschafts- und Technikgeschichte, Workshop: "Transformative Technologies," 31 January 2020: „Democracy on the March“? – Hydropower Infrastructures between Power and Participation in the US and Western Germany (1930s-1950s)

Berlin, TU Berlin, Fachgebiet Technikgeschichte, Workshop: "Materialien und Stoffe in der Medizin-, Wissenschafts- und Technikgeschichte," in der Reihe "Junge Perspektiven" der Gesellschaft für die Geschichte der Wissenschaften, der Medizin und der Technik (GWMT), 29 November 2019: Kulturen und Kosten der Wartung. Der Aufstieg von Kreosot und sein prekäres Erbe

Milan, Annual Meeting – Society for the History of Technology (SHOT), 26 October 2019: Exploring the Earth Through its Anthropogenic Scars. Geology and the Construction of Sea Canals

Regensburg, Universität Regensburg, Professur für Wissenschaftsgeschichte (Prof. Omar W. Nasim) – Kolloquium, 3 July 2019: Schichtarbeiter im Schatten von Großbauprojekten. Meereskanäle als Orte geologischer Wissensproduktion um die Jahrhundertwende

Bochum, Jahrestagung der Gesellschaft für die Geschichte der Wissenschaften, der Medizin und der Technik (GWMT) 14 September 2018: Schichtarbeiter im Schatten imperialer Infrastrukturen. Die Geologie und der Bau des Panamakanals

Zürich, Universität Zürich / Archiv für Zeitgeschichte der ETH Zürich – Workshop "Global and transnational history, networks and violence," 30 January 2018: Exploring and Exploiting in the Shadow of Technical Infrastructures. Geology and Sea Canals in the Age of High Imperialism

Stuttgart, Universität Stuttgart, Historisches Institut, WGNT – Dialogo. Stuttgarter Arbeitskreis für Wissenschafts- und Technikgeschichte, 16 January 2018: Die Geburt des Geoengineerings. Infrastrukturprojekte in der Frühphase des Anthropozäns

München, Ludwig-Maximilians-Universität, Institut für Ethnologie – Die Amerikas-Forschungskolloquium, 16 November 2017: Schichtarbeiter im Schatten imperialer Infrastrukturen. Die Geologie und der Bau des Panamakanals

Chicago, IL, 2017 Conference of the American Society for Environmental History (ASEH), 30 March 2017: The Birth of Geoengineering. Building and Managing Infrastructures in the Early Stage of the Anthropocene

Porto, University of Porto – 43rd Annual Meeting of the International Committee for the History of Technology (ICOHTEC), 27 July 2016: The Birth of Geoengineering. Large-scale-engineering projects in the early stage of the Anthropocene (1850-1950)

Beijing, Renmin University of China, Center for Ecological History – Workshop "Transformations of the Earth," 22 May 2016: The Birth of Geoengineering: Large-Scale Engineering Projects as Laboratories of the Anthropocene

Versailles, Université de Versailles Saint-Quentin-en-Yvelines – 8th Conference of the European Society for Environmental History (ESEH), 3 July 2015: Poster Presentation, The Birth of Geoengineering. Large-scale-engineering projects in the early stage of the Anthropocene (1850-1950)

Teaching

Spring 2023 ***The Anthropocene. Environment, Society and Technology on a human-made Earth***
KARLSRUHE INSTITUTE OF TECHNOLOGY (KIT), KARLSRUHE

Spring 2022 ***"Environmental Justice Now!" – Das Konzept der Umweltgerechtigkeit von den Anfängen bis zur Klimakrise***
KARLSRUHE INSTITUTE OF TECHNOLOGY (KIT), KARLSRUHE
– in collaboration with the UNIVERSITY OF ARIZONA, USA

Spring 2021 ***Green Germany? Umwelt & Gesellschaft von der Aufklärung bis zu Fridays for Future***
WAYNE STATE UNIVERSITY, USA / LUDWIG-MAXIMILIANS-UNIVERSITY, MUNICH

Spring 2020 ***Green Germany? Umwelt & Gesellschaft von der Aufklärung bis zu Fridays for Future***

WAYNE STATE UNIVERSITY, USA / LUDWIG-MAXIMILIANS-UNIVERSITY, MUNICH

2010 – 2015 **Student Assistant – Research & Teaching**
UNIVERSITY POTSDAM – HISTORICAL INSTITUTE

Grants & Fellowships

- DFG Sachbeihilfe – “Eigene Stelle” for the Postdoc project: *Kulturen und Kosten der Wartung. Der Aufstieg von Kreosot und sein prekäres Erbe. [Cultures and Cost of Maintenance. The Rise of Creosote and its Precarious Legacy]* – 311.450 EUR; 2021-2024.
- Doctoral Fellowship, German Historical Institute Washington DC, 4/2017 – 3200 EUR.
- RCC Travel Grant 2015 – 500 EUR.
- ESEH Travel Grant 2015 – 100 EUR.
- Funding for the Workshop *Jean Henri Samuel Formey – Wissensmultiplikator der Berliner Aufklärung*, Universität Potsdam 2013: Stiftung Preußische Seehandlung – 2000 EUR & Universität Potsdam, Phil.Fak., Kommission für Forschung & Nachwuchsförderung – 800 EUR.
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- Funding for a workshop aimed at a wider public, including international discussion panels, family and youth program, visual arts & music under the title: *Greening the Balkans. The fight for environmental justice in Southeastern Europe*, 10/2022; funded by the City of Munich - Kulturreferat & Referat für Klima- und Umweltschutz, balkaNet e.V., Mikado UmdieWELT - Aktion Mensch, Zukunft für Bosnien e.V. – 9.480 EUR

Memberships

European Society for Environmental History (ESEH)
International Committee for the History of Technology (ICOHTEC)
Gesellschaft für die Geschichte der Wissenschaften, der Medizin und der Technik (GWMT)
Gesellschaft für Technikgeschichte (GTG)

Last Update: 28 February 2023