

STEFAN SCHÄFER

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PROFILE

I am trained in Political Science, History, and Philosophy and hold a PhD in International Relations. While conducting doctoral research on the politics of geoengineering, I began to explore and employ approaches from Science and Technology Studies (STS) that integrate insights and methods from Political Theory, Anthropology, Sociology, History, and Philosophy. I have since drawn on these approaches to develop new questions about the intersection of democratic politics, sustainability science, and global governance. I received formal training in STS at Harvard University's Program on Science, Technology and Society.

I am interested in understanding how political and environmental problems are framed, how solutions come to seem plausible or implausible, what the shortfalls and blind spots of dominant imaginaries and practices are, and what alternatives exist. Finding answers to these questions requires a joint effort across research fields. My work is deeply collaborative and has been published in highly ranked peer reviewed journals in the social and natural sciences, as well as in edited volumes and as working papers, assessment reports, and commentaries. I am also contributing author to the Intergovernmental Panel on Climate Change's Fifth Assessment Report and act as a reviewer for peer reviewed journals, publishing houses and funding organizations.

I currently lead a social science research group at the Institute for Advanced Sustainability Studies in Potsdam, where I supervise 3 PhD students. I have managed annual budgets of up to 970.000 Euros and secured more than 850.000 Euros in third-party funding, have organized and chaired large conferences with up to 340 participants as well as more than 15 workshops and conference panels, and have given over 35 invited talks and presentations.

I maintain fellowships at Harvard University's Program on Science, Technology and Society and at the University of Oxford's Institute for Science, Innovation and Society. I frequently advise national governments and international institutions, most recently as Special Adviser to European Commissioner for Transport Ms. Violeta Bulc, and am featured regularly in leading German and international print, television and online media. I will be a Guest Professor in the University of Vienna's Department of Science and Technology Studies in April-May 2020.

ACADEMIC EMPLOYMENT

09/2012- present **INSTITUTE FOR ADVANCED SUSTAINABILITY STUDIES (IASS), POTSDAM**

01/2017-present: Research Group Leader, Climate Engineering in Science, Society and Politics.
Supervision of 3 PhD students.

12/2015-12/2016: Program Leader, Emerging Technologies and Social Transformations in the Anthropocene (ETST). Personnel responsibility for 8 staff and 4 fellows. Budget responsibility for 970.000 EUR.

06/2013-11/2015: Academic Officer and co-leader, Interdisciplinary Research Microcosm on Climate Engineering.

09/2012-05/2013: Project Scientist.

04/2020- 05/2020 **UNIVERSITY OF VIENNA**

Guest Professor in the Department of Science and Technology Studies.

- 09/2009-08/2012 **BERLIN SOCIAL SCIENCE CENTER (WZB)**
 Guest researcher in the research unit Transnational Conflicts and International Institutions (now Global Governance).
- 2006-2008 **INTERNATIONAL RELATIONS CENTER, UNIVERSITY OF TÜBINGEN**
 10/2007 – 03/2008: Teaching assistant.
 03/2006 – 08/2006: Research assistant.
- 10/2005-02/2006 **KNOWLEDGE MEDIA RESEARCH CENTER, UNIVERSITY OF TÜBINGEN**
 Research assistant.

FELLOWSHIPS

- 2018-present **HARVARD UNIVERSITY**
 Fellow, Program on Science, Technology and Society, Harvard Kennedy School.
 Research Affiliate, Harvard Solar Geoengineering Research Program.
- 2017-present **UNIVERSITY OF OXFORD**
 Associate Fellow, Institute for Science, Innovation and Society (InSIS), Oxford Martin School.
- 2017 **UNIVERSITY OF OXFORD**
 Oxford Martin Visiting Fellow, Institute for Science, Innovation and Society (InSIS), Oxford Martin School, April-June.

EDUCATION

- 10/2009-07/2016 **FREIE UNIVERSITÄT BERLIN**
 Dr. Phil. in Political Science.
- 10/2003-08/2009 **UNIVERSITY OF TÜBINGEN**
 M.A. in Political Science, Philosophy and History.
- 08/2006-05/2007 **CORNELL UNIVERSITY**
 Graduate studies in International Relations (Department of Government).

PUBLICATIONS

Peer reviewed journal articles

- 2020 Low, S. and S. Schäfer. Is bio-energy carbon capture and storage (BECCS) feasible? The contested authority of integrated assessment modeling. *Energy Research and Social Science*, 60, 101326, DOI: 10.1016/j.erss.2019.101326.
- 2019 Lawrence, M. and S. Schäfer. Promises and Perils of the Paris Agreement. *Science* 364, 6443, pp. 6-7.
 Low, S. and S. Schäfer. Tools of the Trade: Practices and Politics of Researching the Future in Climate Engineering. *Sustainability Science* 14, 4, pp. 953-962.
- 2018 Lawrence, M., S. Schäfer, H. Muri, V. Scott, A. Oeschies, N. E. Vaughan, O. Boucher, H. Schmidt, J. Haywood and J. Scheffran. Evaluating climate geoengineering proposals in the context of the Paris Agreement. *Nature Communications* 9, 3734, DOI: 10.1038/s41467-018-05938-3.
 Horton, J. B., J. L. Reynolds, H. J. Buck, D. Callies, S. Schäfer, D. Keith and S. Rayner. Solar Geoengineering and Democracy. *Global Environmental Politics*, 18, 3, pp. 5-24.
- 2017 Boettcher, M. and S. Schäfer. Reflecting upon 10 years of Geoengineering Research: Introduction to the

Crutzen +10 Special Issue. *Earth's Future*, DOI: 10.1002/2016EF000521.

2014 Schäfer, S. and S. Low. Asilomar Moments: Formative Framings in Recombinant DNA and Solar Climate Engineering Research. *Philosophical Transactions of the Royal Society A* 372, 2031.

Schäfer, S., A. Maas, H. Stelzer and M. G. Lawrence. Earth's Future in the Anthropocene: Technological Interventions between Piecemeal and Utopian Social Engineering. *Earth's Future* 2, 4, pp. 239–243.

Schäfer, S., P. J. Irvine and A. Maas. Bridging the Gaps in Interdisciplinary Research on Solar Radiation Management. *GAIA* 22, 4, pp. 242-247.

2013 Zürn, M. and S. Schäfer. The Paradox of Climate Engineering. *Global Policy* 4, 3, pp. 266-277.

Book chapters

2020 Schäfer, S. and F. Mauelshagen. Die technologische Kolonisierung des Klimas. In Büttner, U. and D. Müller (eds.). *Dritte Natur: Imaginationsgeschichte des Climate Engineering*, Berlin: Matthes & Seitz.

2018 Schäfer, S. and S. Low. The Discursive Politics of Expertise: What Matters for Geoengineering Research and Governance? In Rivera, M., F. Trentmann and A.-B. Sum (eds.). *Work in Progress: Economy and Environment in the Hands of Experts*, Munich: Oekom.

2016 Bruhn, T., S. Schäfer and M. Lawrence. From the Garden of Eden to Eden's Gardener? – Experiences from Dialogues with Religious Groups on Climate Engineering and Possible Implications for Transdisciplinarity. In Clingerman, F. and K. J. O'Brien (eds.). *Theological and Ethical Perspectives on Climate Engineering: Calming the Storm*, Lexington Books.

Edited publications

2016 Boettcher, M. and S. Schäfer. Crutzen+10: Reflecting on ten years of geoengineering research. Special issue of *Earth's Future*, available at <https://goo.gl/SPzRsh>.

Commentaries, reports, working papers, other

2019 Schäfer, S. Solar Geoengineering and Compensation for Harms. In Stavins, R. and R. Stowe (eds.). *Governance of the Deployment of Solar Geoengineering*, Cambridge, MA: Harvard Project on Climate Agreements.

2018 Habets, D., S. Schäfer and C. S. Hu. The Missing Mineral. In *Migrant Journal* #5.

Honegger, M., Derwent, H., Harrison, N., Michaelowa, A. and S. Schäfer. Carbon Removal and Solar Geoengineering: Potential Implications for Delivery of the Sustainable Development Goals. New York: Carnegie Climate Geoengineering Governance Initiative.

Boettcher, M., S. Schäfer, S. Low and A. Parker. Climate Engineering Conference 2017: Critical Global Discussions. *Conference Report*, Potsdam: IASS.

2017 Boettcher, M., S. Schäfer, M. Honegger, S. Low and M. G. Lawrence. Carbon Dioxide Removal. *IASS Fact Sheet 1/2017*, Potsdam: IASS.

Boettcher, M., A. Parker, S. Schäfer, M. Honegger, S. Low and M. G. Lawrence. Solar Radiation Management. *IASS Fact Sheet 2/2017*, Potsdam: IASS.

Lawrence, M. and S. Schäfer. Herausforderungen des Pariser Abkommens und Diskussionen um Klima-Geoengineering. *Tagesspiegel Background*, 17 July.

Schäfer, S. and M. Lawrence. Geo-Engineering: Klima schützen statt manipulieren. *bizz energy*, June.

Geden, O. and S. Schäfer. Unter Null: Negative Emissionen als neue Herausforderung für die Klimapolitik. *VIK Mitteilungen* 1/17.

Geden, O. and S. Schäfer. Die unpopulären Wege aus der Klimafalle. *Frankfurter Allgemeine Zeitung*, p. N2, 11 January.

- 2016 Geden, O. and S. Schäfer. „Negative Emissionen“ als klimapolitische Herausforderung. *SWP-Aktuell* 2016/A 70, Berlin: Stiftung Wissenschaft und Politik, <http://bit.ly/SWP16A70>.
- Geden, O. and S. Schäfer. Weniger als null. *NZZ am Sonntag*, Nr. 43, p. 59, 23 October.
- Habets, D., C. Hu, S. Schäfer, A. Schmidt, I. Louro. Frontier Moods. Video performance, <http://goo.gl/AO8kLw>.
- 2015 Schäfer, S., H. Stelzer, W. Born, S. Low, M. Lawrence, A. Aaheim, P. Adriázola, G. Betz, O. Boucher, A. Carius, P. Devine-Right, A.T. Gullberg, S. Haszeldine, J. Haywood, K. Houghton, R. Ibarrola, P. Irvine, J.-E. Kristjansson, T. Lenton, J.A. Link, A. Maas, L. Meyer, H. Muri, A. Oschlies, A. Proelß, T. Rayner, W. Rickels, L. Ruthner, J. Scheffran, H. Schmidt, M. Schulz, V. Scott, S. Shackley, D. Tänzler, M. Watson, N. Vaughan. The European Transdisciplinary Assessment of Climate Engineering (EuTRACE): Removing Greenhouse Gases from the Atmosphere and Reflecting Sunlight away from Earth, *Funded by the European Union's Seventh Framework Programme under Grant Agreement 306993*.
- Haraguchi, M., R. Liu, J. Randhawa, S. Salz, S. Schäfer, M. Sharma, S.C. Shifflett, A. Suzuki, Y. Yuan. Human Intervention in the Earth's Climate: The Governance of Geoengineering in 2025+, *Robert Bosch Stiftung*.
- Low, S., N. Moore, A. Parker, A. Maas, M.G. Lawrence and S. Schäfer. Climate Engineering Conference 2014: Critical Global Discussions. *Conference Report*, Potsdam: IASS.
- Moore, N., S. Schäfer and M.G. Lawrence. Procedural Governance of Field Experiments in Solar Radiation Management. *IASS Working Paper*, Potsdam: IASS.
- 2014 Irvine, P.J., S. Schäfer and M.G. Lawrence. Solar Radiation Management Could be a Game Changer. *Nature Climate Change* 4, 842.
- Climate Change 2014: Mitigation of Climate Change. Contribution of Working Group III to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change [Edenhofer, O. et al. (eds.)]. Cambridge University Press, Cambridge, United Kingdom and New York, NY, USA. Contributing author, chapter 6.
- Schäfer, S., P. J. Irvine, A.-M. Hubert, D. Reichwein, S. Low, H. Stelzer, A. Maas and M. G. Lawrence. Field Tests of Solar Climate Engineering. *Nature Climate Change* 3, 766.
- 2013 Low, S., S. Schäfer and A. Maas. Climate Engineering. *IASS Fact Sheet 1/2013*, Potsdam: IASS.
- 2011 Zürn, M. and S. Schäfer. Climate Engineering: Internationale Beziehungen und politische Regulierung. Study commissioned by the German Federal Ministry of Education and Research (BMBF), Berlin: Wissenschaftszentrum Berlin für Sozialforschung.
- Rickels, W., G. Klepper, J. Dovern, G. Betz, N. Brachatzek, S. Cacean, K. Güssow, J. Heintzenberg, S. Hiller, C. Hoose, T. Leisner, A. Oschlies, U. Platt, A. Proelß, O. Renn, S. Schäfer, M. Zürn. Large-Scale Intentional Interventions into the Climate System? Assessing the Climate Engineering Debate. Scoping report conducted on behalf of the German Federal Ministry of Education and Research (BMBF), Kiel Earth Institute, Kiel.
- 2009 Schäfer, S. Die Zukunft des UNESCO-Welterbesystems: Reformansätze für das 21. Jahrhundert. *Vereinte Nationen* 6/2009, pp. 243-248.

GRANTS AND SCHOLARSHIPS

- 2020-present Ocean-based Negative Emission Technologies (Ocean NETs). Consortium of 14 institutions from 6 countries. Funded by the European Union's Horizon 2020 program with total funding of 7.2 million Euros. I act as Work Package leader.
- 2019-present Understanding the Uses of Mathematical Models in Policy-making (MODEL-POL). In collaboration with Humboldt University Berlin, Oxford University, Technical University Berlin and the German Institute for International and Security Affairs (Stiftung Wissenschaft und Politik, SWP). Funded by the Oxford-Berlin Research Partnership, 14.000 EUR.
- 2018-present Solar Geoengineering and Global Climate Governance under the Paris Agreement. Funded by Harvard

University's Solar Geoengineering Research Program, 62.831 USD.

- 2016-2019 Contextualizing Climate Engineering and Mitigation: Illusion, Complement, or Substitute? In collaboration with the University of Hamburg, the Potsdam Institute for Climate Impacts Research (PIK) and the University of Graz. Funded by the German Research Foundation (DFG), 42.910 EUR ("inherited" from Mark Lawrence, who handed over responsibility for this project to me when he took on the position of Managing Director at IASS).
- 2009-2012 PhD scholarship from the Dahlem Research School and the Hertie Foundation.
- 2010-2012 Four Travel Grants to visit international summer schools and conferences (granted by the Universities of Heidelberg, Calgary, Montana, and Oxford).
- 2008 Hugo Rupf Scholarship for an internship at the UNESCO World Heritage Centre in Paris.
- 2006-2007 Tuition waiver granted by the Cornell University Government Department.

RESEARCH STAYS

- 2016 Harvard University, Solar Geoengineering Research Residency, July.
- 2015 Harvard University, research stay in the Program on Science, Technology and Society, Harvard Kennedy School, April.
- 2013 University College London, research stay in the Department of Science, Technology, Engineering and Public Policy (STEEaPP), October.

KEYNOTES, TALKS, PRESENTATIONS

Invited keynotes and lectures

- 2019 Model, Molecule and Market: Global Public Reason in the Climate Regime. Delivered at the Munich Center for Technology and Society, 12 December.
- 2018 Multiple Carbons: Ontologies and Governance in the Climate Regime. Delivered as part of the STS Circle lecture series, Harvard University, 17 September.
- Geoengineering: Wir machen uns die Welt, wie sie uns gefällt. Delivered as part of the lecture series Nachhaltigkeit, Martin-Luther-Universität Halle-Wittenberg, 16 May.
- 2017 Negative Omissions: How the way we (don't) talk about negative emission technologies perpetuates climate reductionism. Delivered by S. Rayner at the Workshop on Politics and Governance of Negative Emissions Technologies, Utrecht, The Netherlands, 16 June (co-authored with S. Rayner and O. Geden).
- 2016 Geo-Engineering—Die internationale Perspektive. Delivered at the Hochschule für Wirtschaft und Umwelt Nürtingen-Geislingen, 04 November.
- Kann Climate Engineering helfen, wo die Politik versagt hat? Delivered at the Top Management Symposium of the Wissenschaftsverein Kärnten, Abbazia di Rosazzo, Italy, 26-28 May.

Invited talks

- 2019 The Politics of Objectivity in Integrated Assessment Modeling. Delivered at the Workshop on Imagined Societies and Policymakers: The Politics of IPCC Scenarios and a New Role for the Social Sciences, University of Hamburg, 14 October.
- 2018 Multiple Carbons: Ontologies and Governance in the Climate Regime. Delivered to the Environmental Studies Workshop, University of Chicago, 16 November.
- The Discursive Politics of Expertise. Delivered to the Solar Geoengineering Reading Group, Harvard University, 28 March.

- What Do We Talk About When We Talk About Geoengineering? The Historical Semantics of a Concept and its Politics. Delivered at the Planetary Designs Workshop, Harvard University, 23 March.
- 2017 Speaker on the panel on Geoengineering: Politische Folgen, technische Möglichkeiten und Risiken, European Forum Alpbach, 28 August.
- Speaker on the 15th Anniversary Panel of the Science and Democracy Network Annual Meeting, Harvard University, 01 July.
- Speaker on the closing panel of the workshop “Governing Complex and Emerging Technologies: Lessons for the Governance of Climate Engineering”, University of California, Berkeley, 09 February.
- 2016 Understanding global climate governance from a geoengineering perspective. Delivered at the International Workshop on Emerging Issues in Global Climate Governance after Paris: Perspectives from Asia and Europe, Hong Kong, 27-28 October.
- 2015 The Governance of Solar Geoengineering. Delivered at the UNESCO conference Our Common Future Under Climate Change, Paris, 9 July.
- Projections of International Conflict and Cooperation on Geoengineering. Delivered at the Workshop on Problems and Prospects of Geoengineering, Harvard University, Cambridge, MA, 16 April.
- 2014 Geoengineering Governance. Delivered at the Geoengineering Workshop of the Senckenberg Museum and the Normative Orders Excellence Cluster, Goethe-Universität Frankfurt am Main, 17 July.
- Issues and Research under EuTRACE. Delivered at the Workshop of the UK Economic and Social Science Research Council Geoengineering Governance Project at the Institute for Urban and Environmental Studies, Chinese Academy of Social Science, Beijing, China, 13-14 May.
- Climate-related Geoengineering. Delivered at the European Expert Meeting in Preparation of the Eighteenth Meeting of SBSTTA (Subsidiary Body on Scientific, Technical and Technological Advice to the Conference of the Parties of the Convention on Biological Diversity), German Federal Agency for Nature Conservation (BfN), Island of Vilm, Germany, 7 May.
- International Law and Governance for Climate Engineering. Delivered at the Policy Briefing on Climate Engineering, Institute for Sustainable Development and International Relations, Paris, France, 19 March.
- The International Politics of Engineering the Climate. Delivered at the Institute for Advanced Study in the Humanities, Essen, Germany, 10 March.
- International Governance of Climate Engineering. Policy Briefing on Climate Engineering, Norwegian Parliament, Oslo, Norway, 4 March.
- 2013 Climate Engineering Research Activities at the IASS. Delivered at the Special Session on Geoengineering Research, University of Tokyo, Japan, 18 December.
- International Cooperation on Solar Radiation Management. Delivered at the International Symposium on Risk Governance of Science and Technology, University of Tokyo, Japan, 15-17 December.
- The Slippery Slope(s) in Climate Engineering. Delivered at the Workshop on Geoengineering, Path-Dependence and Lock-in, University College London, 25 October.
- Climate Engineering Research Activities at the IASS. Delivered at the Fourth Interdisciplinary Summer School on Geoengineering Solar Radiation Management: Exploring Uncertainties and Trade-offs, Harvard University, Cambridge, USA, 5-9 August.
- Research Activities at the IASS and Some Ideas on the Role of Satellite Observations for Assessing Climate Engineering. Delivered at the European Space Agency, Noordwijk, Netherlands, June 24 (together with Peter Irvine).
- 2012 Comparing Risks and Governance of Biotechnology and Solar Geoengineering. Delivered at the Oxford Summer School on Geoengineering Research, University of Oxford, UK, 19-23 August (together with Sean Low).

2011 Political Science and Governance Issues in Climate Engineering. Delivered at the Scoping Workshop on Climate Engineering, Institute for Advanced Sustainability Studies, Potsdam, Germany, 10-11 June.

Invited conference presentations

2019 Past Progressive. Sociotechnical Imaginaries, Hauntology and the Specters of Modernity. Delivered at the 4S Conference, New Orleans, 5 September (together with K. Schiølin).

Model, Molecule and Market. Global Public Reason in the Climate Regime. Delivered at the annual meeting of the Science and Democracy Network, Cambridge, MA, 29 August (together with S. Jasanoff).

2018 Constitutional climates: Solar geoengineering in the co-production of climate expertise and global order. Delivered at the EASST Conference, Lancaster, 28 July (together with G. Dorthe).

Institutionalizing Intervention: STS in the Age of Impact. Delivered at the annual meeting of the Science and Democracy Network, Munich, 30 June.

2017 Claiming and making the future in climate engineering research. Delivered at the 4S Conference, Boston, 30 August (together with S. Low).

Questioning intervention with and within science and technology studies. Delivered at the 4S Conference, Boston, 30 August (together with R. Foley).

2016 Flexing and Reflexing Authority: Engagements with/in Science and Technology. Delivered at the S.NET conference at the University of Bergen, Norway, 12-14 October (together with R. Smith).

The Historical Evolution and Political Dimensions of Geoengineering Terminology. Delivered at the 4S/EASST Conference, Barcelona, 31 August.

2013 Limits to Self-Governance in Climate Engineering Research. Delivered at the ECPR Joint Session of Workshops, University of Mainz, Germany, 11 March (together with S. Low).

Other talks

2019 Open modelling to understand coupled human-natural systems: A new politics of difference? Delivered at the workshop Social Sciences of Modelling: Exploring a New Research Agenda, Humboldt University Berlin, 25 October (together with J. Niewöhner)

Knowledge and Governance in the Climate Regime. Delivered as a semiannual Members Lecture of the Integrative Research Institute for Transformations of Human-Environment Systems (IRI THESys), Humboldt University Berlin, 18 January.

2018 Reinventing Geoengineering: An 'Emerging' Technology and Its Long History. Delivered to the STS Fellows Program at Harvard University, 25 September.

Institutionalizing Intervention: STS in the Age of Impact. Presentation to the STS Fellows Program at Harvard University, 03 April.

2016 Making Sense of Climate Engineering. Delivered at the workshop on Futures Past: Experts, Development and Sustainability. IASS Potsdam, 27-29 April.

2010 Legitimacy and the International Regulation of Geoengineering with Solar Radiation Management: Prospects for Normative Institutional Design Theory. Delivered at the workshop on The Ethics of Geoengineering with Solar Radiation Management. University of Montana, USA. 18-20 October.

2008 Öffentlich-private Kooperation im Bereich der Welterbe-Governance: UNESCO, Zivilgesellschaft und der private Sektor. Delivered at the annual meeting of the Wissenschaftlicher Initiativkreises Kultur- und Außenpolitik. Institute for Foreign Relations, Stuttgart, Germany. 17 October.

EVENT ORGANIZATION

2019 Social Sciences of Modelling: Exploring a New Research Agenda. Workshop held at Humboldt University

Berlin, 24-25 October (co-organized with J. Niewöhner and J. Lezaun).

Ghosts of Modern Futures Past. Session held at the annual conference of the Society for Social Studies of Science (4S), New Orleans, 5 September (co-organized with T. Doezema, G. Dorthe, K. Schiölin, H. Simmet, and M. Whitman).

Multiple Carbons: Historical and Contemporary Approaches to Governance. Workshop held at Harvard University, 5-6 April (co-organized with S. Jasanoff).

2018 Open Questions in STS and Geoengineering. Session held at the biennial conference of the European Association for the Study of Science and Technology (EASST), Lancaster, 28 July (co-organized with G. Dorthe).

2017 Climate Engineering Conference 2017: Critical Global Discussions. International conference held at the Umweltforum and the Neue Mälzerei, Berlin, 09-12 October (270 participants; chair of the conference steering committee).

Modelling, Imagining and Making the Future in Climate Engineering. Session held at the Climate Engineering Conference 2017: Critical Global Discussions, Berlin, 09-12 October (co-organized with S. Low).

Questioning intervention with and within science and technology studies. Session held at the annual conference of the Society for Social Studies of Science (4S), Boston, 30 August-2 September (co-organized with M. Bernstein and R. Smith, co-chaired with Rider Foley).

2016 Flexing and reflexing authority in STS engagements. Session at the S.NET conference at the University of Bergen, Norway, 12-14 October (co-organized with R. Smith, A. Huber, S. Low and S. Spruit).

„Negative Emissionen“ zur Erreichung globaler Klimaziele? Expert meeting held at the Stiftung Wissenschaft und Politik (SWP), Berlin, 10 May, in partnership between IASS and SWP (co-organized with O. Geden).

Collective Behavior Change for Sustainable Futures. Workshop held at the Institute for Advanced Sustainability Studies, Potsdam, 8-9 February, together with the Knowledge, Learning and Societal Change Alliance (co-organized with I. Chabay).

2015 Climate Intervention: Evaluating its Risks, Benefits and Potentials. Co-convenor of a session at the UNESCO conference Our Common Future Under Climate Change, Paris, 7-10 July (co-organized with A. Robock and M. MacCracken).

2014 Climate Engineering Conference 2014: Critical Global Discussions. International conference held at the Scandic Hotel Berlin Potsdamer Platz, 18-21 August 2014 (340 participants; chair of the conference steering committee).

Understanding Process Mechanisms for the Governance of SRM Field Experiments. Workshop at the Institute for Advanced Sustainability Studies, Potsdam, Germany, 16-17 May (co-organized with N. Moore, J. Blackstock and N. Craik).

Self-Governance in Science and Technology. Workshop at the Institute for Advanced Sustainability Studies, Potsdam, Germany, 14-15 May (co-organized with S. Low).

Machtvolle Visionen: Technologische Großprojekte als Antwort auf den Klimawandel? Co-convenor of a session at the conference Globaler Wandel und Macht, AK Umweltpolitik/Global Change, Berlin, Germany, 10-11 February (co-organized with T. Wiertz).

2013 Religious and Spiritual Perspectives on Climate Engineering. Workshop at the Institute for Advanced Sustainability Studies, Potsdam, Germany, 24-26 April (co-organized with M. Lawrence and D. Gerten).

MEMBERSHIPS AND PROFESSIONAL ENGAGEMENTS

2018-present Member of the European Association for the Study of Science and Technology (EASST).

2018-present Member of the Integrative Research Institute on Transformations of Human-Environment Systems (IRI THESys), Humboldt University Berlin.

- 2017-present Member of the Science and Democracy Network (SDN).
- 2017-present Member of the Scientific Advisory Committee for the RE-IMAGINE project (Re-imagining anticipatory climate governance in the world's vulnerable regions), Universities of Utrecht, Wageningen and Oxford.
- 2017-present Member of the Advisory Group for the AMDEG project (Assessing the Mitigation Deterrence Effects of Greenhouse Gas Removal Techniques), University of Lancaster.
- 2017-present Member of the Society for Social Studies of Science (4S).
- 2017-present Member of the Executive Board of the DFG Priority Program on Climate Engineering: Risks, Challenges, Opportunities? (SPP 1689, www.spp-climate-engineering.de/).
- 2016-present Member of the Federation of German Scientists (*Vereinigung Deutscher Wissenschaftler, VDW*).
- 2016-present Member of the Steering Committee for the Geoengineering Research Governance Project, University of Calgary (www.ucalgary.ca/rggproject/).
- 2013-2017 Chair of the Steering Committee for the ongoing Climate Engineering Conference Series (www.ce-conference.org, next instalment in October 2020).
- 2014-2015 Fellow in the Robert Bosch Foundation's Global Governance Futures 2025 program.
- 2014-2015 Member of the Advisory Group for the Solar Radiation Management Science Conference, Cambridge, UK.
- 2013-2014 Contributing author for Working Group III of the IPCC Fifth Assessment Report.

FURTHER TRAINING

- 2018 HARVARD UNIVERSITY
Program on Science, Technology and Society, January-December.
- 2016 HOUSE OF WORLD CULTURES (HKW), BERLIN
Anthropocene Campus 2016: The Technosphere Issue, April.
- 2013 HARVARD UNIVERSITY
Fourth Interdisciplinary Summer School on Geoengineering Solar Radiation Management: Exploring Uncertainties and Trade-offs, August.
- 2012 UNIVERSITY OF OXFORD
Oxford Summer School on Geoengineering Research, August.
- 2011 UNIVERSITY OF CALGARY
Second Transdisciplinary Summer School on Climate Engineering, August.
- 2011 BERLIN GRADUATE SCHOOL FOR TRANSNATIONAL STUDIES (BTS)
Research Colloquium on Statistical Analysis, March.
- 2010 UNIVERSITY OF HEIDELBERG
Summer School on Governing Climate Engineering, July.
- 2010 BERLIN SOCIAL SCIENCE CENTER (WZB)
Workshop on Expert Interviews, May.

POSITIONS OUTSIDE OF ACADEMIA

- 2018-2019 EUROPEAN COMMISSION

Special Adviser to Violeta Bulc, European Commissioner for Transport.

2010-2011 GERMAN FEDERAL MINISTRY OF EDUCATION AND RESEARCH

Scientific consultant, member of an interdisciplinary working group on climate engineering technologies.

2009 UNESCO WORLD HERITAGE CENTRE, PARIS

External consultant.

REVIEWER SERVICES

Reviewer for peer reviewed journals (Environmental Politics, Nature & Culture, Global Policy, Nature Climate Change, Climate Policy, Ethics & International Affairs, Philosophical Transactions of the Royal Society A, Risk Analysis, GAIA, and others), publishing houses (Cambridge University Press, Routledge) and research funding organizations (German Academic Exchange Service DAAD, Robert Bosch Stiftung, Geo.X).

IN THE MEDIA

I have been featured in radio, television, and online and print media, including in Süddeutsche Zeitung, Frankfurter Allgemeine Zeitung, Le Monde Diplomatique, ARTE, Deutschlandfunk, Deutschlandradio Kultur, SWR, Deutsche Welle, rbb Inforadio, Spiegel Online, Carbon Brief, Der Kurier, and Die Furche, among others.

I have published contributions in Frankfurter Allgemeine Zeitung, Neue Zürcher Zeitung am Sonntag, and Der Tagesspiegel, among others.