





"Open Science": Ambivalences and Tensions – New Borderlands Between Science, Technology and Society

Interdisciplinary International Graduate Summer School XXXVIII Summer Courses Miramar Palace, Donostia-San Sebastián

July, 18 – 22, 2022

Directors

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INSTITUTE FOR TECHNOLOGY ASSESSMENT AND SYSTEMS ANALYSIS (ITAS)



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Donostia-San Sebastián



Donostia-San Sebastián is a small city of 183,000 inhabitants, with a remarkably high level of cultural activity for its size. The beauty of its Bay, known as the Pearl of the Cantabrian Sea; its situation in a natural amphitheatre facing the sea and protected by mountains; its quality of life, and its famous gastronomy have turned it during the past two centuries into a world-class tourist destination.

Shaped by history, it started out as a fishing village; grew as a market town and military fort, with the invasion by Napoleon's troops; and after being almost completely destroyed in 1813 by the garrison's battle against the Anglo-

Portuguese, it was chosen by Queen Isabel II as the royal family's summer residence and began to flourish as a services cit .

It was in the late 19th and early 20th century that Donostia-San Sebastián emerged as a city of culture, full of amenities and a main tourist destination. Its majestic buildings and their eclectic style, which reflected the contemporary tastes of the royal family and bourgeoisie, give it a stately character that has adapted well to changing times.

Cultural activity grew at the same pace as tourist activity, so that today the city boasts a top quality performing arts and cultural programme. The International Film Festival, the 'Jazzaldia' Jazz Festival and Music Fortnight are the highlights of its year-round programme. This year the festival is from 20 to 25 July so it overlaps with the Summerschool and attendees will have the possibility to enjoy some concerts, many which are free of charge (https://jazzaldia.eus/en/).

Donostia-San Sebastián is world famous as a food tourism destination, since it's collected more Michelin stars per square metre of its territory than anywhere else in the world; and, as the birthplace of the "new Basque cuisine" movement, it's nurtured the renaissance of Basque gastronomy. The quality of its ingredients and its world famous "pintxos" give much pleasure to both local people and visitors all year round.

Because of its gastronomy, culture, beauty and maturity as a tourist destination, along with accommodation and tourist resources of great variety and exceptional quality, Donostia-San Sebastián is a very important tourist destination, welcoming over 400,000 visitors per year.

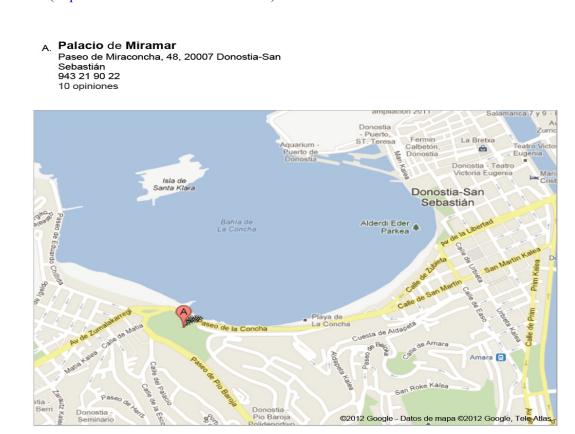
Miramar Palace



This palace was created for queen María Cristina and the royal family, after the queen decided to have her officia summer residence in Donostia-San Sebastián from 1887. It enjoys impressive views of the two beaches in the bay and the Island of Santa Clara, which is directly opposite.

Miramar Palace was built in the 'queen Anne English cottage' style under the direction of English architect Seldon Wornum, who also designed different palaces in Biarritz and San Juan de Luz. It was built of brick and sandstone blocks with a timber frame. Its gardens are the handiwork of master gardener Pierre Ducasse, who also designed the gardens of Aiete Palace and Gipuzkoa Square.

Source: Official website of the Donostia-San Sebastiá Tourism Offi (http://www.sansebastianturismo.com)



"Open Science": Ambivalences and Tensions – New Borderlands Between Science, Technology and Society

Interdisciplinary International Graduate Summer School

XXXVIII Summer Courses UPV/EHU

Donostia-San Sebastián, July 18 - 22, 2022

The PRAXIS Research Group (UPV/EHU), the Institute for Technology Assessment and Systems Analysis (ITAS, KIT Karlsruhe) and the HumTec Centre (RWTH Aachen) will be hosting an International Summer School for PhD students, titled "'Open Science': Ambivalences and Tensions – New Borderlands Between Science, Technology and Society". The Summer School is part of the 38th edition of the UPV/EHU Summer Courses.

Presentation

The present time is characterized by a distressing copresence of diverging dynamics such as digital transition, globalization, environmental crises, new forms of terrorism, new populism and many other dynamics pushing societies towards new answers about the old question of which forms of solving collective problems are both legitimate as well as effective. Thereby, we see two different forms of reaction which can be addressed as regressive forms of politics (e.g. protectionism, "post-truth", nationalism) on the one hand versus calls for open societies based on knowledge sharing and coproduction dynamics (e.g. EU's "three Os": Open Innovation, Open Science, Open to the World; European Commission 2016, 2017; Moedas 2015) on the other. Same to science, like the discourse of "sound" or "excellent" science on the one hand versus calls for "upstream engagement", "citizen science" and open science on the other indicate.

In any case, and this is our starting point here, while new borderlands between science, technology and society are emerging, troubling ambivalences might come to light as the opening-up might be aligned by closing down effects and vice versa. The ambivalence of "openness" is evident in the example of the EU strategies: The experimental processes of opening-up offer new chances for the inclusion of lay-people or citizens into the innovation process and thereby an improvement of efficienc and legitimacy. But, at the same time "open science" becomes instrumental to certain economic goals by which civil society risks being represented as "users" with a "central and transversal role to play in bringing innovation to the market" (European Commission, 2016, p. 17). This raises the question: How open is the politics of open science? The guiding principle of "Opening-Up Science, Technology and Society" is presented as the solution – but at the same time raises questions about the cultural-institutional boundary conditions of open science in practice (e.g. Nerlich et al. 2018; National Academies of Sciences, Engineering, and Medicine 2018; Shelley-Egan et al. 2020).

Keynote lecturers

Prof. Dr. Philip Mirowski, University of Notre Dame, France

Prof. Dr. Steve Fuller, University of Warwick, UK

Prof. Dr. Sharon Rider, Uppsala University, Sweden

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Objectives & Guiding Questions

The main objective of this summer school is to ask about the degrees of openness of societal systems and institutions in which scientific practices are developed, in order to calibrate the meaning and scope of institutionalized "open science" practices and to explore the possibilities for developing more alternative forms of distributed and collective "open sciences". In relation to different cultural and institutional constellations we ask of whether "openness" is a goal or a strategy to achieve the goal. "»Openness« is precisely the kind of concept that wavers between end and means." (Kelty 2008, p. 148). The ambiguous and uncertain status of "openness" can degrade but at the same time stimulate inventions of new modes for its operationalizability:

- analyze the ambiguous notions of "open science" concerning its main epistemological and political dimensions while taking into account the contextual dependences of those dimensions. Anticipating and Exploring the potentialities of "open science" to develop alternative, distributed, collective forms of research related to alternative representations and imaginaries of the societal and technical realities (present and future).
- reflecting on the conditions and expectations of the underlying innovation systems and culturalinstitutional constellations in order to analyze the (im)possibilities of developing socio-institutional reforms supportive of "open science" dynamics.
- collect actual experiences of "open science" initiatives around the globe (in the Western world and beyond) and to explore the potentialities (and hurdles) regarding the development of "open science" practices in different societal and national contexts
- enable a critical and reflective examination of current "open science" strategies and modes/practices of operationalization.
- compare several case studies on science, and society constellations in specific national settings, which describe innovation systems, decision-making structures, institutional settings in detail. This could also include specific indicators, e.g. for innovation or studies of policy advice and policy making processes or more on cultural aspects of science and technology in societies.

Concept

The Summer School provides PhD students with the opportunity to develop their projects in a stimulating working atmosphere and in an international context. We aim at an inspirational environment for learning and discussion that ensures excellent feedback on everyone's work. In formats such as "Lecture", "Individual Presentation" and "Workshop", a varied intellectual experience shall be created. At the same time, San Sebastian provides participants with the opportunity for a week of relaxed interchange, discussion and networking with experienced scholars and other PhD students.

- Lecture: Well-known scholars from established universities will present their basic positions in lectures.
- **Individual Presentation**: This format consists of a 30 minutes paper, in which PhD students present their project to the plenum. A senior scholar will provide comments on the presentation, based on a previously submitted paper and the presentation will then be discussed in the plenum.
- **Interactive Sessions**: In interactive and overreaching sessions the PhD students will be able to submit and discuss their own concrete problems and overall topics of the Summer School.

The language of the Summer School will be English. On successful completion of the Summer School, the graduate will receive a certificate of attendance

Further information: https://www.itas.kit.edu/english/events_2022_summerschool.php

Organizers: Andoni Ibarra (UPV/EHU, Spain), Hannot Rodríguez (UPV/EHU, Spain), Bettina-Johanna Krings (ITAS-KIT, Germany), Andreas Lösch (ITAS-KIT, Germany), and Stefan Böschen (RWTH/ HumTec, Germany).

Interdisciplinary International Graduate Summer School

"Open Science": Ambivalences and Tensions -

New Borderlands Between Science, Technology and Society

Venue: Miramar Palace, 20007 Donostia-San Sebastián, Gipuzkoa, Spain

Monday, July 18, 2022

13:15-14:45	Opening Ceremony
14:45-16:15	Welcome-Session "Expectations & Relations to Open Science"
16:15-16:45	Coffee Break
16:45-18:15	<i>Keynote lecture</i> (Abstract p. 12) Platform Science swallows Open Science <i>Prof. Dr. Philip Mirowski</i> – University of Notre Dame, France
Tuesday, July 19	9, 2022
09:00-09:15	Get together
09:15-10:15	 PhD Presentation (Abstract p. 16) 3 Os between responsibility and innovation as one aspect of the PhD Project: Processes and Procedures in Science – "Procedure" as syntactic term and as transformative practice Janine Gondolf, Institute for Technology Assessment and Systems Analysis (ITAS) at Karlsruher Institute of Technology (KIT), Germany
10:15-11:15	Coffee Break
11:15-12:15	 PhD Presentation (Abstract p. 22) Open science and citizen science: Understanding seriously knowledge as a commons Maite Pelacho, University of the Basque Country – UPV/EHU, Spain
12:15-13:15	 <i>PhD Presentation</i> (Abstract p. 23) Proposal for Indicators to Monitor Responsible Research and Innovation in Spain Jacob Lundgren, INGENIO: Institute of Innovation and Knowledge Management – CSIC-UPV, Spain
13:15-14:45	Lunch break
14:45-15:45	 <i>PhD Presentation</i> (Abstract p. 24) Title of Presentation tba Parissa Mokhtabad Amrei, Chalmers University of Technology, Gothenburg, Sweden
15:45-16:15	Coffee Break

16:15-17:15	 PhD Presentation (Abstract p. 25) Technology Assessment for Sustainability in water use: Operationalization of a responsible governance based in Responsible Research Innovation (RRI) – Anticipation and Inclusiveness Sofia Romeiro, NOVA University of Lisbon, Portugal
17:15-18:30	Session Open Science and Technology Assessment Input presentation: Public Safety Networks from LMR to 5G: Technology Assessment Approach for Smarty City Scenarios Débora Freire, Department of Applied Social Sciences (DCSA), NOVA University Lisbon (UNL), Portugal Input presenation: Impact assessment of AI in the work environment of automotive sector: the Portuguese case Marta Candeias, School of Science and Technology, NOVA University Lisbon (UNL), Portugal

Wednesday, July 20, 2022

09:00-09:15	Get together
09:15-10:45	<i>Keynote lecture</i> (Abstract p. 13) The Political Economy of Open Science and the Prospect of Academic Georgism Prof. Dr. Steve Fuller , University of Warwick, UK
10:45-11:15	Coffee Break
11:15-12:15	<i>PhD Presentation</i> (Abstract p. 26)Can blockchain empower the public to steer scientific innovation? Lessons from the tragedy of the commonsTitus Plagge, RWTH Aachen University, Germany
12:15-13:15	 <i>PhD Presentation</i> (Abstract p. 27) Science and love in sociotechnical constellations. Anticipating open futures of affection-producer technologie Oihana Iglesias Carrillo, University of the Basque Country – UPV/EHU, Spain
13:15-14:45	Lunch break
14:45-15:45	 PhD Presentation (Abstract p. 28) Implementing a market for APCs in chemistry journals (2013-2018). The central place of qualculative agencies Marianne Noel, Laboratoire Interdisciplinaire Sciences Innovations Sociétés (CNRS, INRAE, Univ Gustave Eiffel), Marne-la- allée, France
15:45-16:15	Coffee Break
16:15-17:30	Session Open Science – Ambivalences and Tensions. General Discussion
17:30-	Open Space
20:00-	Dinner

Thursday, July 21, 2022

09:00-09:15	Get together
09:15-10:45	<i>Keynote lecture</i> (Abstract p. 15) Open Science as Covenant and Atonement Prof. Dr. Sharon Rider , Uppsala University, Sweden
10:45-11:15	Coffee Break
11:15-12:15	 PhD Presentation (Abstract p. 30) Amplifying the "Open" of Open Science: Gradients of politico-ethical radicality in the problematisation of STI Sergio Urueña, University of the Basque Country – UPV/EHU, Spain
12:15-13:15	<i>PhD Presentation</i> (Abstract p. 31)Sharing and Reuse Decisions in ScienceNathalie Schwichtenberg, German Centre for Higher Education Research and Science Studies (DZHW), Germany
13:15-14:45	Lunch break
14:45-15:45	 PhD Presentation (Abstract p. 33) Standardization in Science. Effects and Issues of Guidelines for Biomedical Reporting Alexander Schniedermann, Centre for Science and Technology Studies (CWTS), Leiden University, The Netherlands
15:45-16:15	Coffee Break
16:15-	<i>Open Space</i> Opportunity to visit concerts of the "Jazzaldia" (https://jazzaldia.eus/en/)
Friday, July 22,	2022
09:00-09:15	Get together
09:15-10:15	 PhD Presentation (Abstract p. 39) What does "Open" stand for in the concept of Open Science? Facets of the vision of Openness and its societal consequences Paulina Dobroć, Institute for Technology Assessment and Systems Analysis (ITAS) at Karlsruher Institute of Technology (KIT), Germany
10:15-11:15	Coffee Break
11:15-12:15	<i>PhD Presentation</i> (Abstract p. 40)The Emerging Role of Data Citation in ScienceEwa Zegler-Poleska, Science Studies Laboratory, University of Warsaw, Poland



Prof. Dr. Philip Mirowski University of Notre Dame, France

Philip Mirowski is Carl Koch Chair of Economics and the History and Philosophy of Science, and Fellow of the Reilly Center, University of Notre Dame. He is a specialist in the areas of social studies of science, science policy, the politics of modern science, and the history and philosophy of economics. Furthermore he is affiliate to he following topics: Health, Humanities, Society, History and Philosophy of Science, Science, Technology, and Values.

Prof. Steve Fuller University of Warwick, UK

Steve Fuller holds the Auguste Comte Chair in Social Epistemology in the Department of Sociology at the University of Warwick, England, where he is the founder of the research program of social epistemology. In his most recent work, he has been concerned with the future of humanity, or 'Humanity 2.0'. He was awarded a D. Litt. by Warwick in 2007, for significant caree -long contributions to scholarship. He is a Fellow of the UK Academy of



Social Sciences and the European Academy of Sciences and Arts. He is also a Senior Research Fellow at the Breakthrough Institute, the leading 'ecomodernist' think-tank, and Affiliate Scholar at the Institute for Ethic and Emerging Technologies. Major areas of research are the future of the university and critical intellectuals, the emergence of intellectual property in the information society, interdisciplinary challenges in the natural and social sciences, and the political and epistemological consequences of the new biology.



Prof. Dr. Sharon Rider Uppsala University, Sweden

I am Professor of Logic and Metaphysics at Uppsala University and deputy research director of the Engaging Vulnerability research program. My main research interests are in 19thand 20th century European thought falling within the domain of philosophical anthropology, broadly understood. My current focus on vulnerability has to do with how the conditions of possibility for thinking, understanding and learning such as real needs, practical utility, custom, and chance, are

often misconceived as limitations and barriers, i.e. as obstructions to thinking. I want to show, on the contrary, how such conditions are often productive of what can count as "knowing" something, proving it, or understanding it. I am working on a range of material that addresses this topic, including the tension between rural and urban conceptions of what people need to know and be able to do in order to achieve their human potential, and, related to this, the normative discourse that attempts to ameliorate the conditions of those on the periphery. My most recent publications reflect this focus on the possibilities and limitations of educ tional institutions and practices for cognitive agency.

Summer School Directors and Organizers // 13



Dr. Bettina-Johanna Krings

Institute for Technology Assessment and Systems Analysis (ITAS) at Karlsruher Institute of Technology (KIT), Germany

Scientific Degree: Master of Art, M.A. in Political Sciences; PhD (Dr. phil.) in Sociology. Previous Positions: Scientific Referee at the German Foundation of the International Development (1991-1992); Scientific Referee at the Ministry of Cultural Affairs in Buenos Aires, Argentina (1992-1994). Since 1998 Senior Scientist at Institute of Technology

Assessment and Systems Analysis (ITAS), Karlsruhe Institute of Technology (KIT); 2009-2019: Co-Head of Research Department: Knowledge Society and Knowledge Politics and ITAS (KIT); Since 2020: Responsible coordinator for teaching "Technology Assessment" at KIT; Speaker of the topic: Work and Technology at ITAS (since 2009). Deputy Speaker of the Topic: Technology and Work in the KIT Program "Humans and Technology" (since 2014).

http://www.itas.kit.edu/mitarbeiter_krings_bettina-johanna.php

Prof. Stefan Böschen RWTH Aachen, HumTec, Germany

Stefan Böschen is the Chairholder for the research and teaching field "Society and Technology" at the Human Technology Center (HumTec), RWTH Aachen University. He is also Director of the Käte Hamburger International Center "Research Cultures" and Spokesperson of the HumTec, RWTH Aachen University. At the same time he is the Rector's Delegate for the Leonardo Project at the HumTec, RWTH Aachen University. His main research interests focus around: Science and Technology Studies, Technology Assessment, collaborative research and



innovation action, and Knowledge and Democracy.

http://www.humtec.rwth-aachen.de/cms/HUMTEC/Das-Projekthaus/Team/~ptvs/Mitarbeiter-CAMPUS-/?gguid =0x80FDFE0318BE424CABEE1A4FA3595E25&allou=1



Prof. Andoni Ibarra Department of Philosophy, University of the Basque Country, UPV/EHU, Spain

Andoni Ibarra is Professor of Philosophy of Science at the University of the Basque Country (UPV/EHU). He is also the Principal Investigator of PRAXIS Research Group, the founder of the Miguel Sánchez-Mazas Chair, which main goal is to promote Science, Technology and Innovation Studies; He is the Editor-in-Chief of Theoria. An International Journal for Theory, History and Foundations of Science. Andoni's main line of research is on the performative character of scientific representations in the constitution of the world. More particularly, he has

focused on offering concepts of representation not reduced to structural preservation, the relational perspectives for assessment of science and technology based on the connectivity of their practices, the articulation between different types of knowledge in the interaction knowledge-communication-interculturality and, in recent years, on the inclusivity of actors in the governance of responsible innovation as well as on the epistemology of anticipation.

https://www.ehu.es/bilatu/buscar/seekuser.php?lang=es&u=eWxwaWJ1bmE=

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Prof. Hannot Rodríguez Department of Philosophy, University of the Basque Country, UPV/EHU, Spain

Hannot Rodríguez. BA in Philosophy, MA in Philosophy and History of Science and Technology, and PhD in Philosophy (2007) from the University of the Basque Country UPV/EHU. Associate
Professor at the Department of Philosophy of the UPV/EHU. He is also a member of the Sánchez-Mazas Chair (UPV/EHU), and an affiliate of the Consortium for S ence, Policy and Outcomes (CSPO) at Arizona State University. Research interests: risk governance of emerging technologies,



public trust, socio-technical integration, responsible innovation, anticipatory governance, and "Open Science".

http://www.ehu.es/es/web/miguelsanchezmazaskatedra/praxis/people/members/rodriguez



Dr. Andreas Lösch

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Andreas Lösch (Ph.D. and habilitation) is sociologist, senior researcher and head of the research group "socio-technical futures and policies" and of the focus group on "vision assessment" at the Institute for Technology Assessment and Systems Analysis (ITAS) at the Karlsruhe Institute of Technology (KIT). In addition, he is private lecturer and teaches at the

faculty for humanities and social sciences of KIT.

http://www.itas.kit.edu/mitarbeiter_loesch_andreas.php

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