



Newsletter

Issue 4, February 2017

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Note from the President

Dear SNET members,

If anyone had asked me to imagine the changes that would occur over the course of the three months following our meeting in Bergen, Norway this past fall, I would've been hard-pressed to conjure anything even remotely close to what has actually occurred. The political forces that appeared distant and dismissible at the time have ascended to the center of the global stage. On both sides of the Atlantic, nations are convulsing, reconsidering long-held commitments and principles that define their relationships with their respective citizenries, and those that have contoured international relations since the mid-20th century. Strikingly and ominously, these convulsions are even testing the modern world's consensus commitment to rational, fact-based deliberation. And the globalized nature of contemporary life assures that the reverberations of these events touch us all, at least indirectly. We have entered a fluidic state.

But, on the other hand, as we enjoyed the hospitality and camaraderie of our Norwegian hosts, I would have also been strained to fathom how vital, how important, how essential S.NET would become in a world governed by such intense political disruption.

I'm thrilled that the organizing committee for our ninth annual meeting decided to meet this new flux head-on. As the call for abstracts indicates, the new flux necessitates our engagement. It has profound implications not only for our varied professions and our research projects, but also for our Society.

S.NET is nothing without its commitment to international dialogue and cosmopolitanism. Much of what it and we stand for is at stake now. We should not discount our collective capacity to respond to this tumult as teachers and scholars, collaborators and friends, and simply as compassionate human beings. For these reasons I hope that this year's meeting will be one of our most exciting, engaging, and substantive.

I implore you all to submit your abstracts regardless of your country of origin or residence. As political events continue to unfold over the course of the spring and summer, I will remain in close contact with both the Society's board and the local organizing committee chair. If travel restrictions prevent anyone from attending the conference after they've successfully submitted an abstract and registered, we will certainly include them in the fall program and devise methods for them to participate virtually and in absentia.

And of course, I am happy to entertain any questions that you may have regarding the impact of the aforementioned flux on travel logistics. Please feel free to contact me directly.

Sincerely yours,

Michael Bennett

President, S.NET

Call for Abstracts S.NET Annual Meeting 2017

October 9-11, 2017, Arizona State University, Tempe (USA)

Conference Theme: Engaging the Flux

Even the most seemingly stable entities fluctuate over time. Facts and artifacts, cultures and constitutions, people and planets. As the new and the old act, interact and intra-act within broader systems of time, space and meaning, we observe—and necessarily engage with—the constantly changing forms of socio-technological orders. As scholars and practitioners of new and emerging sciences and technologies, we are constantly tracking these moving targets, and often from within them. As technologists and researchers, we are also acutely aware that our research activities can influence the developmental trajectories of our objects of concern and study, as well as ourselves, our colleagues and the governance structures in which we live and work.

“Engaging the Flux” captures this sense that ubiquitous change is all about us, operative at all observable scales. “Flux” points to the perishability of apparently natural orders, as well as apparently stable technosocial orders. In embracing flux as its theme, the 2017 conference encourages participants to examine what the widely acknowledged acceleration of change reverberating across the planet means for the production of the technosciences, the social studies of knowledge production, art practices that engage technosciences and public deliberations about the societal significance of these practices in the contemporary moment.

This year's conference theme aims to encourage us to examine the ways we—as scholars, scientists, artists, experts, citizens—have and have not taken into account the myriad modulations flowing and failing to flow from our engagements with our objects of study. The theme also invites us to

anticipate how the conditions that partially structure these engagements may themselves be changing.

Our goal is to draw a rich range of examinations of flux and its implications for technoscientific and technocultural practices, broadly construed. Questions of specific interest include: Given the pervasiveness of political, ecological and technological fluctuations, what are the most socially responsible roles for experts, particularly in the context of policymaking? What would it mean to not merely accept perishability, but to lean into it, to positively embrace the going under of technological systems? What value can imaginaries offer in developing navigational capacities in periods of accelerated change? How can young and junior researchers—in social sciences, natural sciences, humanities or engineering— position themselves for meaningful, rewarding careers given the complementary uncertainties? How can the growing body of research straddling art and science communities help us make sense of flux and chart a course through it? What types of recalibrations are called for in order to speak effectively to diverse, and increasingly divergent, publics about the value of knowledge production and scientific rigor?

We invite individual paper submissions, open panel and closed session proposals, student posters, and special format sessions, including innovative audio-visual formats and art installations, storytelling fora, pop-up maker labs and other interactive formats.

The deadline for abstract submissions is *March 24, 2017*. Abstracts should be approximately 250 words in length, and emailed in PDF format to 2017snet@gmail.com. Notifications of acceptance can be expected by April 30, 2017.

Junior scholars and those with limited resources are strongly encouraged to apply, as the organizing committee is actively investigating potential sources of financial support.

Scientific Committee: Erik Fisher (chair, ASU); Chistopher Coenen (KIT); Kornelia Konrad (Twente); Vural Özdemir (Amrita University); Cynthia Selin (ASU)

Local Organizing Committee: Michael Bennett (ASU); Diana Bowman (ASU); Lauren Keeler (ASU); Cynthia Selin (ASU)

Vacancies

Researcher on Responsible Research and Innovation (RRI) in European Practice and Funding (4 years), GenØk Centre for Biosafety, Tromsø, Norway

Application deadline: February 17th 2017

GenØk Centre for Biosafety has a research position available in connection with a new EU project NewHoRRizon. The research project “Excellence in science and innovation for Europe by adopting the concept of Responsible Research and Innovation (NewHoRRizon)” sets out to promote the acceptance of Responsible Research and Innovation (RRI) across all parts of the Horizon 2020 (H2020) funding program and beyond. It will work out the conceptual and operational basis to fully integrate RRI into European and national research and innovation (R&I) practice and funding. The project will engage a wide-ranging group of R&I stakeholders in 18 Social Labs (covering all sections

of H2020) to co-create tailor-made actions to stimulate an increased use and acceptance of RRI. The Social Labs will bring program staff, project coordinators, participants and other relevant experts and stakeholders together to: a) adjust existing definitions of RRI to develop a shared understanding; b) diagnose the state of RRI in each part of H2020; c) adapt existing activities as well as create and test new agreed pilot actions to promote the uptake of RRI in the specific program lines of H2020; d) transform the activities into narratives and widely disseminate them for use.

The researcher will be required to perform work in connection with several work packages of the NewHoRRizon project. This work will include the following key tasks:

1. Lead work package 2 focused on the “Excellent Science” arm of H2020 (including the funding programs of the European Research Council, Marie Skłodowska-Curie Actions, Future and Emerging Technologies and Research Infrastructure). Here the researcher will have specific responsibility for the social labs on future and emerging technologies and as work package leader, also responsibility for coordinating and reporting on the work of other partners.
2. Perform the social labs connected to the sub-program of “Food” under work package 4 focused on “Societal Challenges”. This sub-program concerns food security, sustainable agriculture and forestry, marine and maritime and inland water research, and the bioeconomy.
3. Participate in the common task of drafting a manual for the work of the social labs, which will include the methodological concepts, guidelines, and templates necessary for planning, carrying out, and reporting on the process. There will also be some work involved in monitoring the social labs and communicating with the various social lab managers and facilitators.
4. Write academic articles and policy briefs for RRI stakeholders based on the research findings.
5. Present at professional conferences and/or workshops to disseminate the idea of RRI and project’s research.

The position will ideally start May 1st 2017, or as soon as possible thereafter. The position will be offered as a full-time four year position until 30.04.2021. The position is offered within GenØk’s Society, Ecology and Ethics Department (SEED).

Qualifications & Selection Criteria

- A PhD in social science is required. While some level of experience with RRI or ethical, legal and/or social aspects of science and/or technology (i.e. ELSA or ELSI research) is preferred, work in related fields such as sociology, anthropology, philosophy, political science or science and technology studies is acceptable.
- An excellent command of English, in both written and oral forms is required.
- A demonstrated interest in interdisciplinary research (particularly across natural and social sciences) and experience addressing its unique challenges is important.
- A demonstrated ability to organise workshops and facilitate discussion with mixed stakeholder groups is crucial for the position, as is the ability to then analyse and report on the material collected during such discussions and events.
- Previous work on emerging technologies and/or the topic of food and agriculture will be given weight.
- Previous experience working in European projects will be viewed favourably.
- The ability to work independently and creatively, as well as to make positive contributions to a team will be valued.

Application

The application must be submitted electronically *before February 17th* to katrine.jaklin@uit.no

The applications should be written in English and include:

- A 1-2 page statement of why you are interested in the position, how you meet the selection criteria and how your background, interests and/or expertise will be of benefit
- A curriculum vitae that includes details of all previous research projects and publications, as well as any workshops, focus groups, and/or seminars organised
- Certified copies of all academic degrees
- An example of academic writing (e.g. a published article or copy of a Masters/PhD thesis)
- The names and contact details of two referees

For more information contact:

SEED Coordinator & Project Leader: Fern Wickson, fern.wickson@genok.no, tlf. 77623137, or Head of

Administration: Katrine Jaklin, katrine.jaklin@genok.no, tlf. 77645546. Or go to

[https://www.researchgate.net/job/883630_Researcher-](https://www.researchgate.net/job/883630_Researcher-Responsible_Research_and_Innovation_RRI_in_European_Practice_and_Funding)

[Responsible Research and Innovation RRI in European Practice and Funding](https://www.researchgate.net/job/883630_Researcher-Responsible_Research_and_Innovation_RRI_in_European_Practice_and_Funding)

Postdoctoral researcher in Ethics and Governance of Research and Innovation (8 months), University of Twente, The Netherlands

Application deadline: February 21, 2017

In this postdoc, you will be working on two projects. First, you will coordinate and carry out the *Ethics and Policy* project, a project on making ethics research (especially ethics of technology) relevant for policy makers. This is a project funded by the 4TU.Centre for Ethics and Technology (www.ethicsandtechnology.eu). We have done an initial survey of both ethics researchers and policy makers and now want to both develop a general approach for making such ethics-policy links (in the form of a written report) and do a couple of brief pilot projects. Upon request, we can send you more information.

Second, you will be doing work for the *SATORI* project (www.satoriproject.eu), an EU-funded FP7 project that aims to develop standards, approaches and best practices for the ethical assessment of research and innovation in the EU and beyond. It is directed at research ethics committees, research funding organizations, universities and research institutes, industry and other organizations that engage in ethics assessment and guidance of research and innovation. The project is in its final year, and we need someone who can help further develop and implement our proposals, help translate some of them into policies and work with policy makers and other stakeholders in strengthening ethics assessment in the EU and beyond. You will be contributing to reports, policy briefs and workshops and will participate in the dissemination of our results. You can find some of our deliverables (reports) on the website, and we can send you our most recent unpublished reports upon your request.

In addition to these two main tasks, it is possible that your contribution is asked to the development and writing of proposals for research funding in the area of ethics and philosophy of technology.

Your profile

You hold a PhD, or will acquire one by the time of appointment, in ethics, governance studies, policy studies or a related discipline. You have an understanding of and interest in ethical and/or policy issues in relation to technology and innovation. Ideally, you have first-hand experience both with the academic world (preferably with ethics groups and programs) and the policy world, preferably in an international context. You have relevant publications in peer-reviewed, international journals. You have very good command of the English language. You have good analytical skills, are creative, open-minded and possess the ability to develop new ideas and engage in multidisciplinary collaboration. You have good communication skills and are a good team player.

Further information

Location: This position is based at the Department of Philosophy, University of Twente. Contact: Prof. Philip Brey, email: p.a.e.brey@utwente.nl; phone: +31 (0)53 489 4426.

Job application

Your application should include the following documents:

- a cover letter which explains your interest in the position and your qualifications for it;
- a curriculum vitae which includes the name and e-mail address/telephone number for at least two references;
- a writing sample (preferably a published article related to the postdoc area);
- a summary and table of contents of your dissertation (or the entire dissertation).

Applications should be uploaded via www.utwente.nl/vacatures/en (click on "Vacancies" to look for this vacancy, which will have an upload link). The application deadline is *21 February 2017*.

Interviews will be held at the end of February. Since only three documents can be uploaded per application, please combine documents if needed.

Two PhD positions in Responsible Crowd-Based Innovations (4 years), Technical University of Delft, The Netherlands

Application deadline: March 10, 2017

The Faculty of Technology, Policy and Management (TPM) develops robust models and designs, to solve the complex challenges of today's networked society. TPM combines insights from the engineering sciences with insights from the humanities and the social sciences. One of the positions is in the Department of Multi-Actor Systems, which studies governance in and of large-scale technical systems. The second position is in the Department of Values, Technology and Innovation, which studies value aspects and value conflicts associated with socio-technological systems and their innovations.

Job description

The "crowd" increasingly seems to be key for innovation in all kind of sectors, e.g. crowdfunding, open platforms, citizen initiatives for energy production, or the sharing economy. Such crowd-based initiatives provide many opportunities for innovations in socio-technical systems, but also significant

challenges because they often occur in the context of traditional, well-established, institutional and governance structures and practices. In this research project we will study how to deal with the conflicts that can arise where crowd-based innovations meet existing structures. The goal is to design governance arrangements so that the power of mobilising people and organisations can be combined with legitimacy and responsible innovation.

We are looking for two PhD researchers, one applying a normative perspective, and one applying an empirical perspective. The candidates will closely collaborate to combine both perspectives.

Requirements

PhD candidate 1 will be based in the philosophy section of VTI. This candidate preferably has an interdisciplinary profile, with a strong basis in philosophy or applied ethics, e.g. philosophy of science and technology studies.

PhD candidate 2 will be based in the governance group at MAS. This candidate preferably has an interdisciplinary background as well as a strong basis in the social sciences, e.g. Industrial Ecology, Innovation Sciences, Science Technology Studies, Management of Technology.

Both candidates should have an affinity for engineering and technology, and good social and communication skills. Given that the majority of data will be in Dutch, proficiency in Dutch is required.

Information and application

For more information about this position, please contact Bram Klievink, phone: +31 (0)15-2781131, email: a.j.klievink@tudelft.nl. To apply, please send a detailed CV and a one-page proposal describing how you would undertake this research project. Explain also how you plan to collaborate with the other PhD candidate and the project partners. To be able to provide this, you will need additional information on the project. Please contact the vacancy holder (a.j.klievink@tudelft.nl) for a summary description of the project. Application interviews will be held on March 23 and 24. Applications should be sent by *March 10, 2017* to vacature-tbm@tudelft.nl. When applying for this position, please refer to vacancy number ATTBM17.001.

Conference & Workshop Announcements

7th Global TechMining Conference (October 12, 2017) and Atlanta Conference on Science and Innovation Policy (October 9-11, 2017)

In conjunction with the Atlanta Conference on Science and Innovation Policy (ATLC) October 9-11, the VP Institute is sponsoring the 7th Global TechMining Conference October 12 (with a special joint ATLC/GTM Opening Reception -Poster Session on October 11). Tech Mining, a special form of “Big Data” analytics, aims to generate practical intelligence using bibliometric and text-mining software (e.g., VantagePoint, TDA) as well as other analytical & visualization applications for analyses of Science, Technology & Innovation (ST&I) information resources. Management and policy target uses include Competitive Technical Intelligence (CTI), and university, government, and industry research management (enriching grant applications, scoping projects, avoiding redundant research, and assessing R&D effectiveness). The goal of the conference is to engage cross-disciplinary networks of analysts, software specialists, researchers, policymakers, and managers and to advance the use of

textual information in multiple science, technology, and business development fields. Topics of interest include:

- tracking emergence by extracting *topical* content via advanced natural language processing, term clumping, topic modelling, etc.
- ways to demonstrate multi-dimensional indicators of R&D & innovation activity
- means to combine quantitative and qualitative approaches in practical case applications
- algorithms for identification of emergence (of technologies and inception of notable innovations)
- discovering the higher-level properties of (complex) social networks

The conference organizing committee invites submissions for special sessions, papers, power talks, and posters. Two-page submissions for sessions and oral presentations are due by APRIL 15, 2017, through the link on www.gtmconference.org. The deadline for up to 200 word abstracts of Power Talks and Poster submissions is JUNE 15, 2017. Address questions to Denise Chiavetta, Program Chair, at dchiavetta@searchtech.com.

NanoHU Faculty Development (Grant Writing Workshop), February 11, 2017

The Nanoscience Project at Hampton University (NanoHU) will host a professional grant writing workshop for the faculty and staff of Hampton University (HU), Hampton, Virginia, USA. The full-day workshop is scheduled for February 11, 2017. The first half of the day will focus on providing general grant writing training for beginners, while the second half of the day will provide specialized training for faculty members in science technology, engineering, and mathematics (STEM). Topics covered in the “Grant writing for Beginners” session will include: 1) identifying public and private sponsors; 2) understanding the primary elements of grant proposals; 3) recognizing the sponsor expectations; and, 4) avoiding common mistakes in the proposals. The second session will be dedicated to certain faculty members, recognized as “Rising Stars”. Rising Stars (junior faculty with less than three years of experience in the academy, and some grant-writing experience), will benefit from more personalized coaching, and guided grant proposal submission. The grant writing workshop consultant is Dr. Jeremy T. Miner (Miner & Associates, Inc., Milwaukee, Wisconsin, U.S.A.). Dr. Michelle Claville (Hampton University, Hampton, Virginia, USA) is the Principal Investigator and Project Director for NanoHU, an initiative funded by the National Science Foundation Historically Black Colleges and Universities – Undergraduate Program (Award number: HRD 1238838).

Conference and Workshop Reports

Setting the agenda for NANO2ALL dialogues

On 13 October 2016, during the S.NET 2016 conference, we organized an interactive session on Responsible Research and Innovation and effective dialogue approaches that could be used in a new engagement project on nanotechnology: NANO2ALL. Together with six participants, we brainstormed about what responsibility means in practice. Some participants associated ‘responsibility’ with new trends in regulation, moving from government to governance of nanotechnology, through ‘soft laws’, voluntary codes of conduct, etc. Others linked it to recent developments in open innovation, citizen

science and Do-It-Yourself technology, aiming to create responsible nanotechnology ‘by design’. From a security perspective, the Do-It-Yourself movement might introduce new risks for society at large. A short report highlighting these and other dilemmas will shortly be published at www.nano2all.eu.

We also reflected on how the citizen and stakeholder dialogues in the NANO2ALL project could be organised, discussing lessons learned in earlier engagement projects on nanotechnology. The outcomes of this discussion will be taken on board in the citizen dialogues, to be organised in France, Italy, Israel, Poland, Spain and Sweden in April 2017. They will also inform the organisation of the stakeholder dialogues, to take place in the same countries in the autumn of this year. The dates and locations will be posted online at www.nano2all.eu in due course.

The NANO2ALL project has received funding from the European Union’s Horizon 2020 Research and Innovation Programme, under the Grant Agreement Number 685931. This publication reflects only the authors’ view and the Commission is not responsible for any use of the information it contains.

Ineke Malsch and Jantien Schuijjer, NANO2ALL project, www.nano2all.eu

New Books

Research Handbook on Innovation Governance for Emerging Economies - Towards Better Models, edited by Stefan Kuhlmann, University of Twente and Gonzalo Ordóñez-Matamoros, University of Twente and Universidad Externado de Colombia, Bogotá. Edward Elgar Publishing | Eu-SPRI Forum on Science, Technology and Innovation Policy series, 2017. ISBN 9781783471904.



Although in recent years some emerging economies have improved their performance in terms of R&D investment, outputs and innovative capacity, these countries are still blighted by extreme poverty, inequality and social exclusion. Hence, emerging countries are exposed to conditions which differ quite substantially from the dominant OECD model of innovation policy for development and welfare. This Handbook contributes to the debate by looking at how innovation theory, policy and practice interact, and explains different types of configurations in countries that are characterized by two contrasting but mutually reinforcing features: systemic failure and resourcefulness. Focusing on innovation governance and public policies, it aims to understand related governance failures and to explore options for alternative, more efficient approaches.

Free access to the introductory chapter at <http://www.e-elgar.com/shop/eep/preview/book/isbn/9781783471911/>

New Projects

Industry 4.0 in Central-, South- and East-Europe from the Perspective of Technology and Vision Assessment (IND_4.0), European Academy of Technology and Innovation Assessment, Germany.

Since January 2017 the new research project IND_4.0 is running at EA European Academy of Technology and Innovation Assessment. The two year's project IND_4.0 is funded by the Federal Ministry of Education and Research and coordinated by Stephan Lingner at the EA European Academy.

Background: The notion of Industry 4.0 stands for the fourth industrial revolution, the digitalization of industry. This includes not only the increased use of technologies but also the automation of processes through highly interconnected "intelligent" systems. Therefore substantial changes in organization and production, as well as work and everyday life are expected. That is why potential technical and societal effects need to be analyzed early on. This will allow responsible stakeholders to perform this technologically-induced change compatible with societal needs and expectations.

The aim of the project IND_4.0 is to build-up and strengthen a multinational working group from Germany, Poland, Slovenia and the Czech Republic to analyze the societal impacts of Industry 4.0. The starting conditions and challenges of this change in central-, south- and east-European countries are in the focus of this effort. After a joint pre-phase study, the working group prepares a European research project investigating the technology and innovation assessment of Industry 4.0 further.

For more information please contact stephan.lingner@ea-aw.de.