SCIENCE, TECHNOLOGY & INNOVATION STUDIES

AT THE UvA

Report for ASCoR and ASSR, Universiteit van Amsterdam

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Science, technology and innovation studies (STIS) are crucial for understanding the dynamics of the contemporary knowledge society, and thus have an important role to play in the intellectual profile of the Universiteit van Amsterdam. Given the role of science and technology today, a social science faculty which is committed to the study of current social, cultural, political and economic changes, occurring on both local and global scale, must incorporate in its program a field which devotes its attention to innovation and to the manner in which science and technology develop. This Report has been prepared for the Faculteit der Maatschappij- en Gedragswetenschappen, and in particular the Amsterdam School for Social Science Research (ASSR) and the Amsterdam School of Communications Research (ASCoR). The first section introduces the field of STIS at an intellectual level. The second section briefly outlines the history of STIS at the UvA and provides some information about its reputation both nationally and internationally. The third section provides recommendations for consideration by the Faculty, ASSR and ASCoR. The appendices contain information about publications and other activities of STIS-identified staff within the Faculty.

What is STIS?

Science, technology and innovation studies (STIS) is a wide-ranging, inter- and multi-disciplinary field that aims to contribute to a better understanding of the contemporary and historical relations between science, technology and society in the broadest sense, focusing particularly on the ways in which expert and lay knowledges are produced, valorized, distributed and used. Within STIS, the ideas that science and technology shape society and that society shapes science and technology are the starting points. This is not to suggest that science, technology and society always and necessarily move in the same direction at the same rate. On the contrary, the multiple and various ways in which science, technology and society are mutually constitutive are the object of STIS research and scholarship. Many STIS studies focus upon local and contingent technoscientific practices but at the same time they recognized the international context in which much science and technology is produced and transferred.

STIS is a dynamic and growing research field, drawing upon insights from many disciplines and incorporating a wide variety of sub-fields. STIS does not have just one or two disciplinary parents, rather it is indebted to anthropology, sociology, history, philosophy and political economy. Science communication is a sub-field of its own. Moreover, media and communication studies are also becoming increasingly important for STIS as greater attention is paid within STIS to representations of science and technology in the media, and the role of such representations in affecting, for example, public opinion about new technologies or funding priorities within firms and countries. Some of the fundamental questions facing STIS researchers are almost identical to those of the parent disciplines in the humanities and social sciences: within STIS, we too are interested in questions of power, distribution, equity, identity, reflexivity and epistemology. But we think the answers to such questions will be richer and more meaningful if we understand the ways in which science and technology configure and reconfigure both knowledge structures and social relationships.

Thus STIS should not be seen as a specialty within a range of social science and humanities disciplines. It does have its own concerns, and it departs from the traditional disciplines precisely in its emphasis on the importance of science and technology in society and the ways in which the world is structured and the ways in which people are able to participate in it as citizens, consumers, workers, patients, travelers and the variety of other roles people variously occupy.

For example, medicine, health care, and the wider social meaning and management of health are currently undergoing major changes, and these are analyzed by many STIS scholars within the UvA. These changes shape and are shaped by developments in science and technology, which enable new forms of diagnosis, treatment and the delivery of health care. Changes in the locus of care and burden of responsibility for health intersect with scientific and technological developments. Today, genetics, informatics, imaging and integrative technologies, such as nanotechnology, are redefining our understanding of the body, health and disease; at the same time, health is no longer simply the domain of conventional medicine of the clinic. The 'birth of the clinic' heralded the process through which health and illness became increasingly subject to the surveillance by medicine and the state. Although today such surveillance is more complex, sophisticated and precise than it was in the 19th and early 20th centuries (as seen, for example, in the search for 'predictive medicine'), it is also more provisional, uncertain and risk laden. The ways in which new and emerging knowledge about health and medicine is produced and used by experts and lay people is an important focus of STIS work.

The social management of health itself is, at the same time, losing its anchorage in collective social relations and shared knowledge and practice, whether at the level of the local community or through state-funded socialised medicine. This individualisation of health is both culturally driven and state-sponsored, as the promotion of 'self care' demonstrates. The very technologies that redefine health are also the means through which this individualisation can occur – through 'e-health', diagnostic tests, and the commodification of restorative tissue, such as stem cells, cloned embryos and so on. Thus, developments in science and technology are always located within wider socio-economic and political processes.

STIS is characterized by its heterogeneity, interdisciplinarity and its international orientation. It is also relatively fast changing compared to many academic disciplines because of its sensitivity to changes in the scientific and technological environment as well as to social and political changes. This diversity and openness may be seen as offering both risks and opportunities. The opportunities arise from the breadth and dynamism of the field in its relationship to its major object, namely technoscience, and the possibilities for engaging with its development and use. The risks arise because there are no clear rules about who has the expertise to discuss STIS issues and it is difficult to refer to clear, discipline-like standards of knowledge production and evaluation. It can also be difficult to draw a line between scholarship and action. Innovation itself can be considered as a form of action. Making the innovation more knowledge-based requires by definition the crossing of an interface between knowledge production and diffusion. New ICT developments like the Internet have made diffusion mechanisms of knowledge as important as its production. The relation between diffusion and production of knowledge has itself become increasingly complex, for example, because of the possibilities of co-evolutions and bifurcations. These developments require the development of new bodies of knowledge at the interfaces between the natural sciences, the life sciences, and the social sciences. Among other initiatives, the systematic study of university-industry-government relations using a Triple Helix model was initiated by a conference on this subject in Amsterdam in 1996.

One reason for the growth of STIS over the past 30 years is the public's growing concern and skepticism about the nature of technoscience and the reliability of scientific expertise. Nuclear power, climate change, agribusiness, amongst others, have all been subjects of intense political and scholarly debate. Political authorities have given more attention to STIS questions and there has been a marked increase in many countries in the number of initiatives concerned in one way or another with improving public understanding of and engagement with science and technology. There are many important questions which remain open about such initiatives, including what would the public like to know and why, under what conditions can different social groups participate, who decides which issues are discussed, at what point is the public involved and what are the purposes and expectations of such

initiatives. Parallel to the growth in education, communication and participation initiatives, there has also been a regulatory boom, including regulation of both the conduct and use of science and technology. Again, there are questions about who regulates what, for what purposes and what is the knowledge base for developing regulatory schemes. More fundamentally, has regulation become a substitute for ethical reflection? Are all of these initiatives a genuine attempt by political actors to engage the public in democratic deliberation about technoscientific choices, or are they a cynical manipulation of public opinion to improve the acceptability of science and technology?

STIS at the UvA
Despite the lack of a formal place for STIS in the current organizational structure of the UvA, the University of Amsterdam is widely, and correctly, perceived to be a major centre of STIS research and teaching by many STIS scholars internationally. The UvA is and has, for many years, been one of the leading institutions in STIS in the world. In 1981, there was a government-supported initiative to establish an interdisciplinary department of 'science and technology dynamics'. This was further strengthened in 1987 with additional government support for an '*experimentele studierichting*'. At that time, the UvA group co-ordinated a European ERASMUS network of seven of the most prominent European university departments in the STIS field. In addition, an international MA programme was developed which formed the basis for the establishment of the International School for Humanities and Social Sciences (ISHSS). The former department of Science Dynamics (*Wetenschapsdynamica*) ceased to exist within the UvA on 31 December 1999, as a result of a policy of mainstreaming such interdisciplinary work within a traditional disciplinary departmental structure. Nonetheless, the educational programme has been maintained with the development of an MA programme in Science and Technology Studies. Many of the graduates of that programme go on to do doctoral work at the UvA or elsewhere. The colloquia in which UvA staff, AIOs and visiting STIS scholars present and discuss their work have been continued.

There are many reasons for the strength of the UvA's reputation in the STIS field, not least the very impressive publication record of the staff involved (see attached list of publications, honours, etc.) as well as the active participation of UvA staff in national and international STIS activities and associations, briefly summarized below. However, the major reason for the UvA's reputation is the quality of the scholarship across the field. Rather than being associated with a single approach or method, staff at the UvA work on many different topics using a wide variety of methods. This pluralism gives the UvA its distinctive and valued position in the national and international STIS context.

After the dissolution of the department as a center of activities in 1999, the earning power for STIS activities shifted to other places. During the 1980s and 1990s the department took the lead in important institutional innovations like the creation of Access, from which the International School of Humanities and the Social Sciences (ISHSS) emerged; the beta-gamma program; and in collaboration with our colleagues in Maastricht and Twente the first AIO-Network from which WTMC was generated as a national graduate school ("onderzoeksschool"). The department also hosted a number of large government-funded and EU projects during its existence. Since 2000, this specific earning power has shifted to a belt of activities within and around the UvA: Paul Wouters, for example, created a research programme (NERDI) at the Royal Academy which was recently awarded with a second term as the "Virtual Knowledge Studio"; Peter van den Besselaar combines his directorship of a multi-million program of the Netherlands government on "Science System Assessment" at the Rathenau institute in The Hague with a part-time professorship at ASCoR. Several major initiatives within the faculty which led successfully to funding like the ICES-KIS project "Knowledge Network on System Innovations" of John Grin, the "Aids Medicines in Resource Poor Settings Research Programme" of Anita Hardon, and in many respects also Maarten

Hajer's "Amsterdam Centre for Conflict Studies" can be considered as part of STIS or STIS-inspired. Additionally, we mention flourishing activities in the humanities faculty (FdG) led by Gerard de Vries (Philosophy of Science) and José van Dijck (Media and Culture) which are integrated with the activities in the ASSR and ASCoR through the national research platform offered by the Graduate School WTMC.

UvA staff have played prominent roles in international STIS associations. Stuart Blume (1987-1991), Rob Hagendijk (1997-2000) and Sally Wyatt (2000-2004) have, at different times, been President of EASST (European Association for the Study of Science & Technology, 800 members, www.easst.net). Chunglin Kwa was editor of the *EASST Review* from 1992-2006. Olga Amsterdamska was editor of the ISI-ranked journal, *Science, Technology & Human Values* (STHV) between 1993-1998. Other current and former UvA staff have been or still are members of EASST Council, the council of the Society for Social Studies of Science (www.4sonline.org), the editorial boards of *STHV, Social Studies of Science* and *Scientometrics*. During the 1990s, Stuart Blume was President of the International Sociological Association's section on the sociology of science. A series of international workshops, bi-annual conferences, special issues, and edited volumes on the Triple Helix model of industry-government-university relations has been convened and co-ordinated with ASCoR as one of the world centres of activity.

Even though the UvA is no longer an institutional member of the national research school WTMC (*Wetenschap, Maatschappij en Moderne Cultuur*, www.wtmc.net), UvA staff are regular and valued individual contributors to WTMC activities. Both Rob Hagendijk (1993-1998) and Sally Wyatt (since 2005, continuing) have been co-ordinators for PhD training. Rob Hagendijk is currently a member of the WTMC board. Stuart Blume has been its member in the past and Gerard de Vries is a former director.

Recommendations

The FMG/ASSR/ASCoR is asked to maintain and strengthen the national and international visibility and reputation of STIS at the UvA. In order to do this, the following actions could be considered:

1. Re-appointment of the chair in *Science, Technology, and Innovation Studies*, to be a joint ASSR-ASCoR position, and thus with both research schools represented in the selection committee. The person appointed should function as the director of the education programme and be able to teach across the breadth of the interdisciplinary field. Secondly, the person appointed should develop a research programme about the intellectual and social organization and production of knowledge in science, technology and innovation. The research programme should combine the historical tradition which prevails in the ASSR with the more quantitative orientation prevailing in ASCoR. The person appointed to the chair should be able to demonstrate the following qualities:

   - Knowledge of the breadth of the STIS field;
   - Experience with both the cultural-historical tradition and the scientometric, quantitative tradition within STIS, especially with regard to methodologies;
   - Proven ability to further the educational programme, including the ability to convey the breadth of the STIS canon to students as well as the ability to manage, develop and innovate the teaching programmes further;
   - Demonstrated ability to communicate with and manage staff from different disciplinary backgrounds;
   - Ability and enthusiasm to develop the STIS research profile, building on existing expertise and developing (and securing funding for) new lines of research.

2. In order to strengthen this development at the intellectual level we propose the following:

- The Faculty/Research Schools provide financial support for an international workshop to be held in 2008 that would result in the publication of an edited book profiling STIS work at the UvA;
- ASCoR to appoint an internationallyacclaimed STIS scholar in the field of science communication/public understanding of science to the visiting Baschwitz professorship.

3. For the institutional coherence of the research program, we recommend that the Faculty/Research Schools:

- Provide PR and financial support to continue the STS colloquia as STIS;
- Host a web portal to bring together all of the STIS activities within the UvA.

Amsterdam, October 2006

Appendix I

To Whom It May Concern:

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Amsterdam, 10 mei 2006

De besturen van ASCoR en de ASSR stellen een verkenningscommissie in voor het onderzoeksgebied van wetenschaps-, technologie- en innovatie-onderzoek met de volgende taken:

- het inventariseren van het lopend en voorgenomen onderzoek op het gebied van de organisatie en communicatie van kennis in wetenschap, technologie en innovatie aan de Universiteit van Amsterdam (zowel binnen als buiten de FMG);
- het inventariseren van mogelijkheden om te komen tot een versterkte samenwerking op dit gebied binnen de kaders van de ASSR en ASCoR;
- karakterisering van het lopend onderzoek ten opzichte van de internationale ontwikkeling: wat is het profiel van het onderzoek aan de UvA/FGM ten opzichte van de bestaande tijdschriften en internationale organisaties?
- inventarisatie van de financiele werfkracht van het STS/STI onderzoek in het recente verleden en in de nabije toekomst;
- inventarisatie van de zichtbaarheid van het onderzoek (redactie-raden, internationale programma-commissies, etc.)
- doen van suggesties voor de wijze waarop de zichtbaarheid virtueel vergroot kan worden (eventueel via een STS website waarnaar toe doorgelinkt kan worden vanuit de verschillende ASSR en ASCoR programma's

Er is enige coordinatie op landelijk niveau in de onderzoeksschool WTMC. De bedoeling is om weer eens het complete plaatje van de situatie aan de Universiteit van Amsterdam en met name binnen de FMG te krijgen.

Als leden van de commissie worden voorgesteld:
Voor de ASSR: dr. Olga Amsterdamska, prof. dr. John Grin;
Voor ASCoR: dr. Sally Wyatt, dr. Loet Leydesdorff
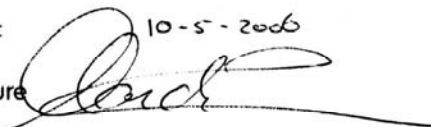
Anita Hardon
Directeur ASSR

Datum:

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Claes de Vreese,
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Appendix II
Publications, 2003-2005

Akkerman, Tjitske, Maarten A. Hajer, and John Grin. "The Interactive State: Democratisation from Above?" *Political Studies* 52 (2004): 82-95.

Amsterdamska, Olga. "Achieving Disbelief: Microbial Variation and the Disciplinary and National Styles in Epidemiology." *Studies in the History of the Biological and Biomedical Sciences* 35 (2004): 483-507.

Amsterdamska, Olga. "Demarcating Epidemiology." *Science, Technology and Human Values* 30 (2005): 17-51.

Amsterdamska, Olga. "The Development of Diagnostic Methods and Techniques." *Storia della Scienza. Vol VIII. Biomedicina. Enciclopedia Italiana*. Rome: Treccani. 2004.

Amsterdamska, Olga. "Research in the Hospital of the Rockefeller Institute for Medical Research." In *Creating A Tradition of Biomedical Research: Studies in the History of the Rockefeller University*, edited by Darwin H. Stapleton. New York: Rockefeller University Press, 2004: 111-126.

Amsterdamska, Olga, and Anja Hiddinga. "Negotiating Classifications: Autism in the DSM," In *Public Proofs, Science, Technology and Democracy.* Paris, Ecole de Mines, 2004: 314.

Amsterdamska, Olga, and Anja Hiddinga. "Trading Zones or Citadels: Professionalization and Intellectual Change in the History of Medicine." In *Medical History: The Stories and Their Meanings*, edited by Frank Huisman and John H. Warner. Baltimore: Johns Hopkins University Press, 2004: 237-261

Arzberger, P., P. Schroeder, A. Beaulieu, G. Bowker, K. Casey, L. Laaksonen, D. Moorman, P. Uhlir, and P Wouters. "An International Framework to Promote Access to Data." *Science* 303, 5665 (2004): 1777-78.

Arzberger, P., P. Schroeder, A. Beaulieu, G. Bowker, K. Casey, L. Laaksonen, D. D. Moorman, P. Uhlir, P. Wouters. " Promoting Access to Public Research Data for Scientific, Economic and Social Development." *Data Science* 3 (2004): 135-152.

Beaulieu, Anne. "Brains, Maps, and the New Territory of Psychology." *Theory & Psychology 13* (2003): 561-68.

Beaulieu, Anne. "The Form and the Feel: Combining Approaches for the Study of Networks on the Internet." *Journal of Computer Mediated Communication 8* (2003).

Beaulieu, Anne. "From Brainbank to Database: The Informational Turn in the Study of the Brain." *Studies in History and Philosophy of Biological and Biomedical Sciences* 35 (2004): 367-390.

Beaulieu, Anne. "Meditating Ethnography: Objectivity and the Making of Ethnographies of the Internet." *Social Epistemology 18* (2004, 2-3): 105-108.

Beaulieu, Anne. Review of *Digitizing the News* by Pablo Boczkowski. *Resource Center for Cyberculture Studies* (November 2004).

Beaulieu, Anne and H. Park, eds. *Journal of Computer Mediated Communication 8* (2003, no 4).

Bervoets, Liesbeth. "Betwiste deskundigheid: De volkswoning 1870-1930." In *Techniek in Nederland in de 20ste eeuw. Deel VI. Stad, bouw, industriële productie,* Zutphen: Walburg Pers, 2003: 118-141.

Bervoets, Liesbeth. "Modernisering van de woningbouw 1890-1970: Een bijzonder patroon van technische vernieuwing." In *Techniek in Nederland in de 20ste eeuw. Deel VI. Stad, bouw, industriële productie,* edited by J.W. Schot et al. Zutphen: Walburg Pers, 2003: 110-117.

Bervoets, Liesbeth. Review of *Beyond the work-family balance. Advancing gender equity and workplace performance,* by R. Rapoport, L. Bailyn, J.K. Fletcher, and B.H. Pruitt. *Mens en maatschappij* 78 (2003): 416-17.

Bervoets, Liesbeth. "Van kwantiteit naar kwaliteit." In *Techniek in Nederland in de 20ste eeuw. Deel VI Stad, bouw, industriële productie*, edited by J.W. Schot et al. Zutphen: Walburg Pers, 2003: 240.

Bervoets, Liesbeth. "Veelvormige innovatie." In *Beter bouwen en bewonen. Een praktijkgerichte toekomstverkenning*, edited by M. D. J. van Well. Den Haag: Stichting Toekomstbeeld der Techniek, 2004.

Bervoets, Liesbeth. "Woningbouwverenigingen als tussenschakel in de modernisering van de woningbouw 1900-1940." In *Techniek in Nederland in de 20ste eeuw. Deel VI. Stad, bouw, industriële productie,* edited by J.W. Schot et al. edited by J.W. Schot et al. Zutphen: Walburg Pers, 2003: 142-159.

Bervoets, Liesbeth, and E. A. M. Berkers. "Bouwvakkers en de modernisering van het bouwen 1900-1970." In *Techniek in Nederland in de 20ste eeuw. Deel VI Stad, bouw, industriële productie,* edited by J.W. Schot et al. Zutphen: Walburg Pers, 2003: 196-213.

Bervoets, Liesbeth, and Ruth Oldenziel. "Vrouwenorganisaties als producenten van consumptie en burgerschap, 1880-1980." *Tijdschrift voor Sociale Geschiedenis* 28 (2002): 273-301.

Bervoets, Liesbeth, and F. C. A. Veraart. "Bezinning, ordening en afstemming 1940-1970." In *Techniek in Nederland in de 20ste eeuw. Deel VI. Stad, bouw, industriële productie,* edited by J.W. Schot et al. Zutphen: Walburg Pers, 2003: 214-239.

Bervoets, Liesbeth, Th. Wilmink, and F. C. A. Veraart. "Coproductie: Emancipatie van de gebruiker?" In *Techniek in Nederland in de 20ste eeuw. Deel VI. Stad, bouw, industriële productie,* edited by J.W. Schot et al. Zutphen: Walburg Pers, 2003: 160-195.

Besselaar, Peter van den. "ICT, e-science en de sociale wetenschappen." In *Toverwoord "Informatie,"* edited by E. Dijk, P. Doorn, and G. de Jong, Amsterdam: NIWI-KNAW, 2005: 165-189.

Besselaar, Peter van den. "Local Information and Communication Infrastructures: Models, Results, Perspectives." *Lecture Notes in Computer Science* 3081 (2004): 1-16.

Besselaar, Peter van den. "Local Information and Communication Infrastructures: An Introduction." *Lecture Notes in Computer Science* 3081 (2005), 1-15.

Besselaar, Peter, van den. "Social Experimenting with e-Voting Technology: A Discussion of the Social and Political Issues." In *E-voting and Electronic Democracy: Present and Future,* edited by S. D. Kim. Seoul: Icat, 2005: 55-69.

Besselaar, Peter van den, and D. Beckers. The Rise and Decline of the Great Amsterdam Digital City. *Lecture Notes in Computer Science* 3081(2005): 64-93.

Besselaar, Peter van den, and S. Koizumi, eds*. Digital Cities 3: Information Technologies for Social capital, Cross-cultural Perspectives. Lecture Notes in Computer Science* 3081, 2005: xii+ 431.

Besselaar, Peter van den, and S. Koizumi, eds. *Digital Cities 3. Information Technologies for Social Capital*. Heidelberg: Springer Verlag, 2004.

Besselaar, Peter van den, G. de Michelis, J. Preece and C. Simone, eds. *Communities and Technologies 2005.* Dordrecht: Kluwer Academic Publishers, 2005.

Bihui, J. and Loet Leydesdorff. *Chinese Journal of Scientific and Technical Periodicals* 16 (2005): 141-146.

Blume, Stuart. "Anti-Vaccination Movements and Their Interpretations." *Social Science and Medicine* 62 (2005): 628-642.

Blume, Stuart. *Grenzen aan Genezen: over Wetenschap, Technologie en de Doofheid van een Kind.* Amsterdam: Bert Bakker: 2006.

Blume, Stuart. "Lock in, the State and Vaccine Development: Lessons from the History of the Polio Vaccines." *Research Policy* 34 (2005): 159-173.

Blume, Stuart, and Geerke Catshoek. "De patiënt als mede-onderzoeker. Van vraaggestuurde zorg naar vraaggestuurd onderzoek." *Medische Antropologie* 15 (2003): 183-204.

Blume, Stuart, and Anita Hardon. "Shifts in Global Immunization Goals (1984-2004): Unfinished Agendas and Mixed Results." *Social Science and Medicine* 60 (2005): 345-356.

Blume, Stuart, and Dale Rose. "Citizens as Users of Technology: An Exploratory Study of Vaccines and Vaccination." In *How Users Matter. The Co-construction of Users and Technology,* edited by Nelly Oudshoorn and Trevor Pinch. Cambridge, Mass.: MIT Press, 2003: 103-132.

Blume, Stuart, and Mariske Zanders. "Vaccine Independence, Local Competences and Globalization: Lessons from the History of Pertussis Vaccines." *Social Science and Medicine* 63 (2006): 1825-1835.

Bröer, Christian. "Schiphol moet vertrouwen wekken." *De Volkskrant*, Forum, July 7 2005.

Bröer, Christian, and K. Wirth. "Mehr Belästigung bei gleichem Pegel, Wieso Flugzeuggeräusche heute möglicherweise lästiger sind als vor 40 Jahren." *Zeitschrift für Lämbekämpfung* 4 (2004): 118-122.

Bröer, Christian, and K. Wirth. "Wachsende Empfindlichkeit auf Lärm?", *Immobilia* 71 (November 2004).

Bröer, Christian, K. Wirth, M. Brink and C. Schierz. "Veränderung der Lärmbelästigung im zeitlichen Verlauf." *Umweltmedizin in Forschung und Praxis* 10 (2005, 2).

Carson, L., S. White, C.M. Hendriks, and J. Palmer. "Combining a Televote and Citizens' Jury in a Legislative Review." In *Public Participation and Local Governance*, edited by J. Font. Barcelona: Institut de Ciéncies Polítiques i Socials, 2003 : 168-181.

Carson, L., S. White, C. M. Hendriks, and J. Palmer. "Community Consultation in Environmental Policy Making." *The Drawing Board: An Australian Review of Public Affairs* 3 (2002): 1-13.

Clement, A., Peter van den Besselaar, F. de Cindio, A. Oostveen, and D. Schuler, eds. *Artful Integration: Interweaving Media, Materials and Practices*. New York: ACM Press, 2004.

Dijck, José van. "Capturing the Family. Home Video in the Age of Digital Reproduction." In *Shooting the Family. Cultural Values and Transnational Media,* edited by Patricia Pisters and Wim Staat. Amsterdam: Amsterdam University Press, 2005: 25-40.

Dijck, José van. "After the Two Cultures: Towards a (Multi)cultural Practice of Science Communication." *Science Communication* 20 (2003): 1-14.

Dijck, José van. "Composing the Self. Of Diaries and Lifelogs." *Fibreculture* 3 (2004) online journal on digital culture, http://journal.fibreculture.org.

Dijck, José van. "Digitaal Engagement." In *Nieuwe Engagement in architectuur, kunst en vormgeving*. Rotterdam: Nai Uitgevers, 2003: 150-154.

Dijck, José van. "Digitized Memories: The Computer as Personal Memory Machine." *New Media and Society* 7 (2005): 291-312.

Dijck, José van."Fantastische Reisen im Zeitalter der Endoskopie." In *Einbildungen*, edited by Jorg Huber. Vienna: Springer Verlag, 2005: 47-74.

Dijck, José van. "Hoge en lage wetenschap. De vingerafdruk als pars pro toto." *De Academische Boekengids* 40 (2003): 7-9.

Dijck, José van. "Ingenieurs en kunstenaars samen op de kermis." *Krisis. Tijdschrift voor Empirische Filosofie* 4 (2003): 83-87.

Dijck, José van. "Luistercultuur als historisch onderzoeksobject." *Tijdschrift voor Mediageschiedenis* 6 (2003): 83-90.

Dijck, José van. "Mediated Memories : Personal Cultural Memory as an Object of Cultural Analysis." *Continuum. Journal of Media and Cultural Studies* 18 (2004): 261-277.

Dijck, José van. "Picturizing Science: The Science Documentary as Multimedia Spectacle. *International Journal of Cultural Studies* 9 (2006): 5-24.

Dijck, José van. "Plasturgie: Le corps anatomique comme art postmoderne." *Alliage: Culture/Science/Technique* 50-51 (2003): 43-63.

Dijck, José van. "Screening Science: The Pictorial Effect in Science Documentary." In *Science and the Power of Television*, edited by Jaap Willems and Winfried Gopfert. Amsterdam: VU Press, 2006: 47-62.

Dijck, José van. "Segregatie" in *School Parasites. Nieuwe Noodlokalen voor Naoorlogs Nederland*. Rotterdam: WimBy, 2004: 70-71.

Dijck, José van. *The Transparent Body. A Cultural Analysis of Medical Imaging*. Seattle: University of Washington Press, 2005.

Dijck, José van. "Trepanation. Brain Stories and the MRI-Art of Krien Clevis." In *The Eternal Body, edited* by Catrien Santing and Krien Clevis. Budel: Damon, 2004: 36-46.

Dijck, José van. "Writing the Self. Of Diaries and Weblogs." In *Sign Here! Handwriting in the Age of New Media,* edited by Sonja Neef, José van Dijck en Eric Ketelaar. Amsterdam: Amsterdam University Press, 2006: 116-133.

Dijck, José van, Sonja Neef and Eric Ketelaar, eds. *Sign Here! Handwriting in the Age of New Media*. Amsterdam: Amsterdam University Press, 2006.

Dijstelbloem, H., C.J.M. Schuyt, and Gerard de Vries. "Dewey en de nieuwe politieke kwesties in de kennissamenleving." In *De staat van de democratie. Democratie voorbij de staat*, edited by E.R. Engelen en M. Soe Dhian Ho. Amsterdam: Amsterdam University Press, 2004: 113-134.

Dolfsma, W., Loet Leydesdorff, and G. van der Panne. "De kenniseconomie de maat genomen." *ESB* 90 (2005): 366-368.

Est, Rinie van, Josée van Eijndhoven, Wilma Aarts, Anne Loeber. "The Netherlands: Seeking to Involve Wider Publics in Technology Assessment." In *Participatory Technology Assessment. European Perspectives, edited by* S. Joss and S. Bellucci. London: Centre for the Study of Democarcy, 2002: 108-125.

Frenken, Koen and Loet Leydesdorff. "Scientometrics and the Evaluation of European Integration." In *Innovation, Entrepreneurship and Culture: The Interaction between Technology, Progress and Economic Growth,* edited by J. Ulijn and T. Brown. Cheltenham, UK and Northhampton, MA: Edward Elgar Publishing, 2004: 87-102.

Gomperts, W. "Effectonderzoek en de moeizame relatie tussen psychoanalyse en empirische wetenschap. De les van een historische gevalsbeschrijving." *Maandblad Geestelijke Volksgezondheid*, 59 (2004): 10-39.

Goonasekera, Anura, Cees Hamelink and Venkat Iyer, eds. *Cultural Rights in a Global World*. Singapore: Eastern Universities Press, 2003.

Grin, John. "Betrouwbaarheid en diversiteit van onderzoek in de landbouwkennisinfrastructuur." In Stuurgroep Technology Assessment, *Wie betaalt bepaalt? Verslag van een studiedag*. Den Haag: Ministerie voor LNV, 2005: 25-29.

Grin, John. "Health Technology Assessment Between Our Health Care System and Our Health. Exploring the Potential of Reflexive TA." *Poiesis & Praxis* 2 (2004): 157-174.

Grin, John. "Hoger onderwijs voor of op een hoger plan? – plaats en betekenis van toekomstdenken in het hoger onderwijs," In *Duurzame Ontwikkeling en Toekomstdenken*, edited by Elisabeth Dobbinga and Andreas Vlasman. Den Haag: Raad voor het Milieu- en Natuuronderzoek, 2004: 16-24.

Grin, John. "NMEers en bestuurders: kansen voor alledaagse samenwerking." In *Koperen Oogst. 12 jaar Rijksstimulering "Natuur- en Milieu-Educatie" en "Leren voor Duurzaamheid,"* edited by Koos Roseboom. Amsterdam: Nationale Commissievoor Duurzame Ontwikkeling, 2003: 40-45.

Grin, John. *De politiek van omwenteling met beleid*. Amsterdam: Vossiuspers, 2004.

Grin, John. "Reflexive Modernization as a Governance Issue - Or: Designing and Shaping *Re*-structuration." In *Reflexive Governance for Sustainable Development,* edited by Jan-Peter Voß, Dierk Bauknecht and René Kemp. Cheltenham: Edward Elgar, 2006: 54-81.

Grin, John, Francisca Felix, Bram Bos, and Sierk Spoelstra. "Practices for Reflexive Design: Lessons from a Dutch Programme on Sustainable Agriculture." *International Journal of Foresight and Innovation Policy* 1 (2004): 126-149.

Grin, John, Francisca Felix, Bram Bos, and Sierk Spoelstra. "The Praxis of Reflexive Design: Lessons from a Dutch Programme on Sustainable Livestock Systems." *Technikfolgenabschätzung. Theorie und Praxis* 13 (2004): 99-107.

Grin, John, Henk van de Graaf and Philip Vergragt. "Een derde generatie milieubeleid: Een sociologisch perspectief en een beleidswetenschappelijk programma." *Beleidswetenschap* 17 (2003): 51-72.

Grin, John, Maarten Hajer and Wytske Versteeg (eds.). *Meervoudige democratie. Ervaringen met vernieuwend bestuur*, Amsterdam: Aksant, 2004.

Grin, John, Margriet Hartman, and Gertjan van der Wilt. "Beleidsonderzoek en versterking van het primaat van de politiek *in* de uitvoering – lessen uit de gezondheidszorg." *Beleidswetenschap* 18 (2004): 347-369.

Grin, John and Arienne van Staveren. *Werken aan systeeminnovaties. Lessen uit de ervaringen van InnovatieNetwerk en andere praktijkorganisaties.* Assen: Van Gorcum, 2006.

Groenewegen, Peter, and Paul Wouters. "Genomics, ICT and the Formation of R&D Networks." *New Genetics and Society* 23 (2004): 167-185.

Hagendijk, Rob, and Annemiek Nelis. "Participatie, deliberatie en representatie. Reflecties op het Engelse stamceldebat.In *Kennis Vragen in de Polder. Jaarboek KennisSamenleving* 1, edited by Gerard Alberts et al. Amsterdam: Aksant, 2005: 233-254.

Hagendijk, Rob P. "The Public Understanding of Science and Public Participation in Regulated Worlds." *Minerva* 42 (2004): 41-59.

Hagendijk, Rob P. "Framing GM Food: Public Participation, Citizenship and Liberal Democracy." *EASST Review* (2004, no 1): 1-7.

Hagendijk, Rob P., and Myrthe Egmond. "What Public/ Whose Concerns? The Dutch Debate on Food and Genes." *Soziale Technik* (2003, no 2): 8-10.

Hajer, Maarten. "Coalitions, Practices and Meaning in Environmental Politics: From Acid Rain to BSE." In *Discourse Theory in European Politics*, edited by D. Howarth and J. Torfing. Basingstoke: Palgrave Macmillan, 2005: 297-315.

Hajer, Maarten. "Rebuilding Ground Zero. The Politics of Performance." *Planning Theory and Practice* 6 (2005): 445-464.

Hajer, Maarten. "Setting the Stage, A Dramaturgy of Policy Deliberation." *Administration & Society* 36 (2005): 624-647.

Hajer, Maarten, Dirk Sijmons and Fred Feddes, eds. *Een plan dat werkt. Ontwerp en politiek in de regionale planvorming.* Rotterdam: Nai Uitgevers, 2006.

Hajer, Maarten, and W.B. Versteeg. "A Decade of Discourse Analysis of Environmental Politics: Achievements, Challenges, Perspectives." *Environmental Policy & Planning* 7 (2005).

Hajer, Maarten and Hendrik Wagenaar, eds. *Deliberative Policy Analysis: Understanding Governance in the Network Society*, Cambridge / New York: Cambridge University Press, 2003.

Hamelink, Cees J. "Communication Rights and the European Information Society." In *The European Information Society*, edited by J. Servaes. Bristol: Intellect, 2004: 121-147.

Hamelink, Cees J. "Cultural Rights in the Global Village." In *Cultural Rights in a Global World* edited by Anura Goonasekera, Cees Hamelink and Venkat Iyer, eds. Singapore: Eastern Universities Press, 2003: 7-25.

Hamelink, Cees J. "Cyberspace –van experimenteren naar exploiteren." In *Communicatie en ethiek,* edited by R. van Es. Amsterdam: Boom, 2004: 220-230.

Hamelink, Cees J. "Did WSIS Achieve Anything at All?" *Gazette* 66 (2004): 281-290.

Hamelink, Cees J. "Direitos humanos para o sociedade da informacoa." In *Direotos a comunicaco na sociedade da informacap*, edited by J. Marques de Melo and L. Sathler. Sao Paolo: Universidade Metodista, 2005: 103-152.

Hamelink, Cees J. "Ethiek van de gebruiker." In *Ethiek van de Wetenschapscommunicatie,* edited by M. Drenthen, J. Willems, and H. Zwart. Amsterdam: Boom, 2005: 214-224.

Hamelink, Cees J. "Grounding the Human Rights to Communicate." In *Many Voices, One Vision*, edited by Ph. Lee. Penang: Southbound, 2004: 21-31.

Hamelink, Cees J. *Human Rights for Communicators*. Cresskill: Hampton Press, 2004.

Hamelink, Cees J. "Human Rights for the Information Society." In *Communicating in the Information Society,* edited by B. Girard and S. O Siochru. Geneva: UNRISD, 2004: 121-163.

Hamelink, Cees. J. "Human Rights in the Global Billboard Society." In *Shaping the Network Society: The New Role of Civil Society in Cyberspace*, edited by Douglas Schuler and Peter Day. Cambridge (MA): MIT Press, 2004.

Hamelink, Cees J. "Intellectual Property Rights." In *Who Owns the Media?* Edited by P. N. Thomas and Z. Nain.). London: Zed Books, 2004: 43-48.

Hamelink, Cees J. "Interculturele communicatie." In *Putten uit de bron,* edited by H. de Wit, M. Kool, N. van den Horst, and A. Moolenaar. Zoetermeer: Meinema, 2004: 332-341.

Hamelink, Cees J. "Media tussen code en commercie." In *Communicatie en ethiek,* edited by R. van Es. Amsterdam: Boom, 2004: 112-123.

Hamelink, Cees J. [A Moral Critique of Development: In Search of Global Responsibilities]. *Development and Change* 25 (2004): 633-634.

Hamelink, Cees J. "Preface." In *Global Media go to War* , edited by R. D. Berenger. Spokane: Maquette Books, 2004: xxi-xxiv.

Hamelink, Cees J. *Regeert de Leugen?* Amsterdam: Boom, 2004.

Hamelink, Cees J. "Theologie en communicatie." *Gereformeerd Theologisch Tijdschrift* 102 (2004): 140-147.

Hamelink, Cees J. "Towards Human Rights to Communicate." *Canadian Journal of Communication* 29 (2004): 205-212.

Hamelink, Cees J. "The United Nations at 60: Time to Go Home?" *The Journal of International Communication* 11 (2005): 15-26.

Hamelink, Cees J. "Wetenschap en interactie: Een tegenstrijdigheid?" In *Interactieve wetenschapscommunicatie*, edited by Cees J. Hamelink, I. van Veen and J. Willems. Bussum: Coutinho, 2004: 17-20.

Hardon, Anita. "Aim for Equity, and Confront Undue Commercial Influences." *The Lancet* 361/9351, 6 (2003).

Hardon, Anita. *How to Investigate the Use of Medicines by Consumers.* Geneva: WHO, 2004.

Hardon, Anita. "Immunization." In *Health, Illness and the World´s Cultures,* edited by C.R. Ember and M. Ember. Dordrecht: Kluwer Academic/Plenum Publishers, 2004.

Hardon, Anita. "Negotiating Safety and Acceptability of New Contraceptive Technologies." *Medische Antropologie* 16 (2004): 105-132.

Hardon, Anita. "Reproductive Health Care in the Netherlands: Would Integration Improve It." *Reproductive Health Matters* 11 (2003): 2006.

Hardon, Anita, and Eline Haastrecht. "Socio-cultural and Political Factors which Facilitate and Constrain Representation and Analysis of Diversity in Clinical Research." In *Diversity among Patients in Medical Practice: Challenges and Implications for Clinical Research* , edited by Nicolien Wieringa, Anita Hardon, Karin Stronks and Amade M´Charek. Amsterdam: ASSR/AMC/ZonMw, 2005: 6-12.

Hardon, Anita, and Charles Medawar. *Medicines Out of Control? Antidepressants and the Conspiracy of Goodwill*. Amsterdam: Aksant, 2004.

Hardon, Anita, C. Obermeyer et al. "Gender and Medication Use." *Women and Health* 39 (2004, no 4).

Hart, Angie, Flis Henwood and Sally Wyatt. "The Role of the Internet in Patient-Practitioner Relationships: Findings from a Qualitative Research Study." *Journal of Medical Internet Research 6* (2004): e36. Available online: http://www.jmir.org/2004/3/e36/

Hart, Angie, Flis Henwood and Sally Wyatt. "Information at Your Fingertips." *Public Service Review: Health*. Spring 2004: 32-3.

Heijden, H.A. van der. "Ecological Restoration, Environmentalism and the Dutch Politics of 'New Nature'." *Environmental Values* 14 (2005): 427-446.

Heimeriks, Gaston, and Peter van den Besselaar. "Analyzing Hyperlinks Networks: The Meaning of Hyperlink Based Indicators of Knowledge Production." *Cybermetrics* 10 (2006): 1-19.

Hellsten, Iina. "Focus on Metaphors: The Case of 'Frankenfood' on the Web." *Journal of Computer Mediated Communication* 8 (2003, no. 4).

Hellsten, Iina. "Promises of a Healthier Future: Medical Genetics on Finnish Television News, 1987-2000." *Nordicom Inofrmation 25 and Nordicom Review 24* (2003): 33-39*.*

Hellsten, Iina. "Las metáforas como herramientas de comunicación. Collected papers from Simposio: Metáfora, ciencia y medios de comunicación. " *Panace@Boletin de Medicina y Traduccion 4,* (2003) : 13-14.

Hellsten, Iina. "From Sequencing to Annotating: Extending the Metaphor of the Book of Life from Genetics to Genomics." *New Genetics and Society* 24 (2005): 283-297.

Hendriks, C.M., (2006). "Integrated Deliberation: Reconciling Civil Society's Dual Role in Deliberative Democracy." *Political Studies* 54 (2006).

Hendriks, C.M. "Participatory Storylines and their Impact on Deliberative Forums." *Policy Sciences* 38 (2005): 1-20.

Hendriks, C.M., "Consensus Conferences and Planning Cells: Lay Citizen Deliberations." In *The Deliberative Democracy Handbook: Strategies for Effective Civic Engagement in the 21st Century*, edited by J. Gastil and P. Levine. San Francisco: Jossey-Bass, (2005): 80-110.

Hendriks, C. M. "Institutions of Deliberative Democratic Processes and Interest Groups: Roles Tensions and Incentives." *Australian Journal of Public Administration* 61 (2002): 64-75.

Henwood, F., S. Wyatt, A. Hart, and J. Smith. "Ignorance Is Bliss Sometimes: Constraints on the Emergence of the Informed Patient in the Changing Landscapes of Health Information. " *Sociology of Health and Illness* 25 (2003): 589-607.

Kostoff, R.N., J. Antonio del Río, H.D. Cortés, C. Smith, A. Smith, C. Wagner, L. Leydesdorff, G. Karypis, G. Malpohl, and R. Tshiteya. "The Structure and Infrastructure of Mexico's Science and Technology." *Technological Forecasting and Social Change* 72 (2005): 798-814.

Kuijper, M., V. Toom, and N. Wieringa. *Alledaagse Zorg: De Politiek van Gewone Medische Praktijken*, edited by A. M'charek & D. Willems. Den Haag: Rathenau Institute, 2005.

Kwa, Chunglin. "Alexander von Humboldt, het schilderkunstige en het natuurlijke landschap," *Feit en Fictie* 5 (2003, no 4): 16-34.

Kwa, Chunglin. "Alexander von Humboldt's Invention of the Natural Landscape," *The European Legacy* 10 (2005): 149-162.

Kwa, Chunglin. "Does Interdisciplinarity Really Exist? Review of *Practising Interdisciplinarity*, P. Weingart & N. Stehr (eds.)." *EASST Review* 21 (2002, no 1): 3-5.

Kwa, Chunglin. "Interdisciplinarity and Postmodernity in the Environmental Sciences." *History and Technology* 21 (2005): 331-344.

Kwa, Chunglin. "Local Ecologies, Global Science: Discourses and Strategies of the International Geosphere-Biosphere Programme." *Social Studies of Science* 35 (2005): 923-950.

Kwa, Chunglin. *De ontdekking van het weten. Een andere geschiedenis van de wetenschap*, Amsterdam: Boom, 2005.

Kwa, Chunglin. Review of *Fabulous Science* by John Waller. *Ambix* 50 (2003).

Kwa, Chunglin. "Romantic and Baroque Conceptions of Complex Wholes in the Sciences," in *Complexities: Social Studies of Knowledge Practices*, edited by John Law and Annemarie Mol. Durham, N.C.: Duke University Press, 2002: 23-52.

Leenders, M. A. A. M., and E. Waarts. "Family Business Evolution and Competitiveness: The Role of Family Orientation and Business Orientation." *European Management Journal* (2003).

Leenders, M. A. A. M., J. van Telgen, G. Gemser, and R. van der Wurff. "Success in the Dutch Music Festival Market: The Role of Format and Content." *International Journal of Media Management* 7 (2005): 158-167*.*

Leydesdorff, Loet. "Anticipatory Systems and the Processing of Meaning: A Simulation Inspired by Luhmann's Theory of Social Systems." *JASSS -Journal of Artificial Societies and Social Simulation* 8 (2005, no 2): http://jasss.soc.surrey.ac.uk/JASSS.html .

Leydesdorff, Loet. Can Networks of Journal-Journal Citations Be Used as Indicators of Change in the Social Sciences? *Journal of Documentation* 59 (2003), 84-104.

Leydesdorff, Loet, and Henry Etzkowitz. "Can 'The Public' Be Considered as a Fourth Helix in University-Industry-Government Relations?" *Science & Public Policy 30* (2003): 55-61.

Leydesdorff, Loet. "Clusters and Maps of Science Journals Based on Bi-connected Graphs in the Journal Citation Reports." *Journal of Documentation* 60 (2004): 371-427.

Leydesdorff, Loet. "The Construction and Globalization of the Knowledge Base in Inter-human Communication Systems." *Canadian Journal of Communication 28* (2003): 267-289.

Leydesdorff, Loet. "Empirical Evidence of Self-organization? A Rejoinder." *Journal of the American Society for Information Science and Technology* 54 (2003): 804; 1077f.

Leydesdorff, Loet. "The Evaluation of Research and the Scientometric Research Program: A Methodological Turn." *Studies in Science of Science* 22 (2004): 226-232.

Leydesdorff, Loet. "The Evaluation of Research and the Evolution of Science Indicators." *Current Science* 89 (2005): 1510-1517.

Leydesdorff, Loet. "Interaction" versus "Action," and Luhmann's Sociology of Communication. In *Rethinking Communicative Interaction: New Interdisciplinary Horizons* edited by C. B. Grant. New York: John Benjamins. 2003: 163-186.

Leydesdorff, Loet. "Journal Maps and Local Impact Factors." *Chronicle of Higher Education* 52 (2005, no 13): A55.

Leydesdorff, Loet. *Ke Xue Ji Liang Xue De Tiao Zhan: Ke Xue Jiao Liu de Fa Zhan ce du he Zi Zu Zhi.* Beijing: Scientific and Technical Documents Publishing House, 2003.

Leydesdorff, Loet. "Mathematical, Biological, and Computational Explanations" [Review of E. Fox Keller, *Making Sense of Life: Explaining Biological Development Models*, *Metaphors, and Machines*.]. *Heredity* 94 (2005): 458.

Leydesdorff, Loet. "Die Mathematik und andere Kurzsprachen." In *Schlüsselwerke der Systemtheorie* edited by D. Baecker. Wiesbaden: Verlag für Sozialwissenschaften, 2005: 55-64.

Leydesdorff, Loet. "A Methodological Perspective on the Evaluation of the Promotion of University-Industry-Government Relations." *Small Business Economics* 20 (2003): 201-204.

Leydesdorff, Loet. "The Mutual Information of University-Industry-Government Relations: An Indicator of the Triple Helix Dynamics." *Scientometrics* 58 (2003): 445-467.

Leydesdorff, Loet. "The Scientific Impact of China." *Scientometrics* 63 (2005): 411f.

Leydesdorff, Loet. "Similarity Measures, Author Cocitation Analysis, and Information Theory." *Journal of the American Society for Information Science and Technology* 56 (2005): 769-772.

Leydesdorff, Loet. "Sturen met een dichtgeplakte vooruit: Duurzame ontwikkeling en technologische innovatie." *EU Forum* 3 (2004): 28-29.

Leydesdorff, Loet. "Top-down Decomposition of the Journal Citation Report of the Social Science Citation Index: Graph- and Factor-Analytical Approaches." *Scientometrics* 60 (2004): 159-180.

Leydesdorff, Loet. "La triple elica delle relazioni sistemiche tra stat, mercato e università." *Desk* 2004.

Leydesdorff, Loet. "The Triple Helix Model and the Study of Knowledge-Based Innovation Systems." *International Journal of Contemporary Sociology* 42 (2005): 12-27.

Leydesdorff, Loet. "The University-Industry Knowledge Relationship: Analyzing Patents and the Science Base of Technologies," *Journal of the American Society for Information Science and Technology (JASIST)* 55 (2004): 991-1001.

Leydesdorff, Loet, and J. Bihui. "Mapping the Chinese Science Citation Database in Terms of Aggregated Journal-Journal Citation Relations." *Journal of the American Society of Information Science and Technology* 56 (2005): 1469-1479.

Leydesdorff, Loet, and D. Dubois. "Anticipation in Social Systems." *International Journal of Computing Anticipatory Systems* 15 (2004): 203-216.

Leydesdorff, Loet, and Iina Hellsten. "Metaphors and Diaphors in Science Communication: Mapping the Case of 'Stem-Cell Research." *Science Communication* 27 (2005): 64-99.

Leydesdorff, Loet, and M. Meyer. "The Triple Helix of University-Industry-Government Relations: Introduction to the Topical Issue." *Scientometrics 58* (2003): 191-203.

Leydesdorff, L., and M. Meyer (eds.). *The Triple Helix of University-Industry Government Relations. Scientometrics* 58 (2003).

Leydesdorff, Loet, and J. Ward. "Science Shops: A Kaleidoscope of Science-Society Collaborations in Europe." *Public Understanding of Science* 14 (2005): 353-372.

Leydesdorff, Loet, and P. Zhou. "Are the Contributions of China and Korea Upsetting the World System of Science?" *Scientometrics* 63 (2005): 617-630.

Loeber, Anne and J. Cramer. "Governance Through Learning: Making Corporate Social Responsibility in Dutch Industry Effective From a Sustainable Development Perspective." *Journal of Environmental Policy & Planning* 6 (2004): 1–17.

Loeber, Anne. "Learning Processes at Group Level." In J. Cramer, *Learning about Corporate Social Responsibility. The Dutch Experience*. Amsterdam: IOS Press. 2003: 83-99.

Loeber, Anne and E. Roelofs. "Kennisproductie en transitiemanagement: Leren van en over de kruisbestuiving tussen wetenschap en (beleids)praktijk uit de ervaringen van het Nationaal Initiatief Duurzame Ontwikkeling." In Wetenschap met Beleid, Beleid met Wetenschap, edited by S. van den Burg, G. Spaargaren, H. Waaijers. SWOME/GaMON Marktdag. Wageningen: Wageningen Universiteit. 2005.

Loeber, Anne and John Grin. "Proeven van duurzaam doen." *Arena* 8 (2004): 6-7.

Loeber, Anne and John Grin. "Springend leren, lerend springen." In Proeven van duurzaam doen, Nationaal Initiatief duurzame ontwikkeling 1999-2004, edited by J. de Graaf, T. van den Heiligenberg, M. Koens, and N. van der Woude. Leeuwarden: NIDO, 2004: 98-101.

Loeber, Anne. *Inbreken in het gangbare. Transitiemanagement in de praktijk: de NIDO-benadering.* Leeuwarden: Nationaal Initiatief Duurzame Ontwikkeling, 2003.

Loeber, Anne and C. Alma. "Blokkades opruimen. Transitiemanagement van theorie naar praktijk." *Milieutijdschrift Arena*, 6 September 2003.

Marres, Noortje. "Beter productief wantrouwen, dan misplaatst vertrouwen," *Krisis* 4 (2003): 36–52.

Marres, Noortje. "Quel est cet animal politique sorti du chapeau de la "gender theory" ?" *Multitudes*, *Exils* 12 (February, 2003).

Marres, Noortje. Review of Annemarie Mol, *The Body Multiple: Ontology in Medical Practice.* Krisis 5 (2004).

Marres, Noortje. Review of Annemarie Mol, *The Body Multiple: Ontology in Medical Practice.* EASST Review 23 (2004).

Marres, Noortje. Review of Jodi Dean's *Publicity's Secret: How Techno-Culture Capitalizes on Democracy. Space & Culture* 7 (2004).

Marres, Noortje. "Tracing Trajectories of Issues, and Their Democratic Deficits, on the Web. The Case of the Development Gateway and its Doubles." (Special Issue on Actor-network Theory and Information Systems.) *Information Technology and People 17* (2004).

Marres, Noortje and Richard Rogers. "Subsuming the Ground, How Local Realities of the Ferghana Valley, the Narmada Dams, and the BTC Pipeline are Put to Use on the Web." The Civil Society and ICT Network of the Social Science Research Council, http://www.ssrc.org/programs/itic/itic_publications/it_use.page , October 2004.

M'charek, Amade. "Genetic Sex." In *A Companion to Gender Studies,* edited by P. Essed and D. T. Goldberg. Oxford: Blackwell, 2004: 87-101.

M'charek, A. *The Human Genome Diversity Project: An Ethnography of Scientific Practice.* Cambridge : Cambridge University Press, 2005.

M'charek, Amade. "Kiezen of delen: Hormonale anticonceptiva, nu ook voor hem?" *Krisis* 6 (2005): 94-99.

M'charek, Amade. "Een kwestie van technieken: Over de buitensporigheid van de genetica en de onbestendigheid van ras." *Krisis 5* (2004): 22-35.

M'charek, Amade. "Een lichaam is een lichaam is een lichaam: Over de morele imperatief van het gezondheidsonderzoek, Repliek op Ineke Klinge." *Tijdschrift voor Genderstudies* 7 (2004, no 1): 63-65.

M'charek, Amade. "The Mitochondrial Eve of Modern Genetics: Of People and Genomes, or, the Routinization of Race." *Science as Culture* 14 (2005): 161-183.

M'charek, Amade. "Partiele verwantschap." *Lover* (2003 no 1): 54-55.

M'charek, Amade. "Populatie in het forensisch DNA onderzoek: Van probleem naar mogelijkheid." In *Ethiek van DNA tot 9/11,* edited by J. Braeckman, B. de Reuver and T. Vervisch. Amsterdam: Amsterdam University Press: 2005: 99-119.

M'charek, A. "Problemen met diversiteit: Of waarom we van lijsten afmoeten." *Tijdschrift voor Genderstudies* 8 (2005 no 3): 74-79.

M'charek, Amade. "Sekse: Uit de darkrooms van de laboratoria!" *Lover* (2003, no 4): 10-11.

M'charek, Amade. "Verwantschap in een biotechnologisch tijdperk." *Tijdschrift voor Genderstudies* 7 (2004, no 2): 53-59.

M'charek, Amade, Agnes Andeweg, and Barbara. van Balen (eds.). *Sporen en Resonanties: De klassieken van de Nederlandstalige genderstudies.* Amsterdam: SWP, 2005.

M'charek, Amade, Barbara van Balen and Agnes Andeweg. "Inleiding." In *Sporen en Resonanties: De klassieken van de Nederlandstalige genderstudies*, edited by Amade M'charek, Agnes Andeweg, and Barbara van Balen. Amsterdam: SWP: 2005: 7-16.

M'charek, Amade, Mirjam Kohinor and Ronald Stolk "Diversity in Clinical Practice: Which Differences Matter?" In *Diversity among Patients in Medical Practice: Challenges and Implications for Clinical Research* , edited by Nicolien Wieringa, Anita Hardon, Karin Stronks and Amade M´Charek. Amsterdam: ASSR/AMC/ZonMw, 2005: 47-79.

M'charek, Amâde and Dick Willems (eds.). *Alledaagse zorg: de politiek van gewone medische praktijken.* Den Haag: Rathenau Instituut, 2005.

Metze, T.A.P. "Besturen, participatie en organisatie." In *Vijfentwintig jaar later: de toekomstverkenning van de WRR uit 1977 als leerproces*, edited by P.A. van der Duin, C.A. Hazeu, P. Rademaker and I.J. Schoonenboom. Amsterdam: Amsterdam University Press, 2004: 55-64.

Metze, Tamara. "Grenzen aan vernieuwing: de herontwikkeling van het Bijlmerpark," *Agora* 21 (2005): 24-27.

Metze, Tamara. "Teleurstelling in toekomststudies." *Rooilijn* 36 (2003): 273-377.

Nelis, Annemiek, Rob Hagendijk, and Gerard de Vries. "We the Patients – Parkinson's Disease, Patients and Politics." In *Public Proofs- Science Technology and Democracy.* Paris: Centre de Sociologie de l'Innovation, 2004: 46-7.

Nelis, Annemiek, Gerard de Vries, and Rob Hagendijk. " 'Stem geven' en 'publiek maken'. Wat patiëntenverenigingen ons kunnen leren over democratie." *Krisis* 5 (2004): 25–40.

Oostveen, Anne-Marie, and Peter van den Besselaar. "Internet Voting Systems and Civic Participation." *Javnost /The Public* 13 (2004): 61-78.

Oostveen, Anne-Marie, and Peter van den Besselaar. "Security as Belief, User Perceptions of the Security of Electronic Voting Systems." *Lecture Notes in Informatics* 47 (2004): 88-97.

Oostveen, Anne-Marie, and Peter van den Besselaar. "From Small Scale to Large Scale Participatory Design: A Case Study of Participatory Design in E-Government Systems." In *Artful Integration: Interweaving Media, Materials and Practices*, edited by A. Clement et. al. New York: ACM Press, 2004.

Oostveen, Anne-Marie, and Peter van den Besselaar. "Trust, Identity, and the Effects of Voting Technologies on Voting Behavior." *Social Science Computing Review* 23 (2005): 304-311.

Oostveen, Anne-Marie, and Peter van den Besselaar. "A Social Informatics Approach to Studying Remote Electronic Voting." *Revista de Informatica Sociala 4* (2005): 16-28.

Oostveen, Anne-Marie, and Peter van den Besselaar. "User Involvement in Large-scale E-Government Projects: Finding an Effective Combination of Strategies and Methods." In *User Involvement in e-Government Development Projects*, edited by A. Følstad et al. Oslo: Sintef, 2005: 11-18.

Otterloo, A. van, with Adri A. Albert de la Bruheze. "The Milky Way: Infrastructures and the Shaping of Milk Chains." *History and Technology* 20 (2004): 249-269.

Paul, K. "Deciding on Discourse. A Reply to Spörndli", *Newsletter of the IPSA Committee on Concepts and Methods* 1 (2005).

Park, H. W., L. Leydesdorff, H.D. Hong, and S. J. Hong. "Triple-Helix Indicators for the Knowledge-Based Innovation System: A Comparison between South Korea and The Netherlands." *Journal of the Korean Data Analysis Society* 6 (2004): 1389-1402.

Park, H. W., and L. Leydesdorff. "Understanding the KrKwic: A Computer Program for the Analysis of Korean text" [original in Korean]. *Journal of the Korean Data Analysis Society* 6 (2004): 1377-1387.

Park, H. W., L. Leydesdorff, H.D. Hong, and S.J. Hung. "Indicators for the Knowledge-Based Economy: A Comparison between South Korea and The Netherlands." *Scientometrics* 65 (2005): 3-27.

Pels, D. "Mixing Metaphors: Politics or Economics of Knowledge." In *Society and Knowledge. Contemporary Perspectives in the Sociology of   Knowledge and Science,* edited by Nico Stehr and Volker Meja. New Brunswick and London: Transaction Publishers, 2005 (2nd rev. ed.): 269-298.

Ratto, Matt. "Don't Fear the Penguins: Negotiating the Trans-local Space of Linux Development." *Current Anthropology* 46 (2005): 827–834.

Ratto, Matt. "Foundations and Profiles: Boundary Metaphors in Genetic Databases and Biobanks." *Public Understanding of Science* 14 (2005): 31-53.

Ratto, Matt. "Embedded Technical Expression: Code and the Leveraging of Functionality." *The Information Society* 21 (2005, no 3).

Reuzel, Rob, John Grin and Tjitske Akkerman. "The Role of the Evaluator in an Interactive Evaluation of Cochlear Implantation: Shaping Power, Trust, and Deliberation." *International Journal of Foresight & Innovation Policy* 3 (2006).

Rogers, Richard. *Information Politics on the Web.* Cambridge, MA / London: MIT Press 2004.

Rogers, Richard. "Old and New Media: Competition and Political Space." *Theory & Event* 8 (2005).

Rogers, Richard. "New Media Effects: Do Formats Organize Networks?" *Complexity* 10 (2005): 22-34.

Rogers, Richard. "Poignancy in the U.S. Political Blogsphere." *Aslib Proceedings* 57 (2005): 356-368.

Rogers, Richard. "Public Participation in the 1970s Channel Tunnel Debate. Part I: The Defeat of a 'Traffic Tunnel'." *Science as Culture* 12 (2003): 189-225

Rogers, Richard. "Public Participation in the 1970s Channel Tunnel Debate. Part II: The Garden Tunnel Alternative." *Science as Culture* 12 (2003): 275-301.

Rogers, Richard. "The Viagra Files: The Web as Anticipatory Medium." *Prometheus* 21 (2003): 195-212.

Rogers, Richard. "When Government meets Public Debate." *EASST Review* 23 (March 2004): 7-9.

Rogers, Richard. "Why Map? The Techno-epistemological Outlook." In *Acoustic Space 5*, edited by M. Tuters. Riga: RIXC, 2004: 64-67. (Commissioned by the Piet Zwaart Institute, Rotterdam, https://pzwart.wdka.hro.nl/mdr/pubsfolder/whymap/).

Rogers, Richard, and Noortje Marres. "French Scandals on the Web and on the Streets: A Small Experiment in Stretching the Limits of Reported Reality." In *CyberAsia: The Internet and Society in Asia,* edited by Z. Baber. Leiden: Brill, 2005: 119-136.

Rogers, Richard, and Noortje Marres. "Recipe for Tracing the Fate of Issues and their Politics on the Web." In *Making Things Public: Atmospheres of Democracy*, edited by Bruno Latour. Cambridge MA: MIT Press, 2005: 922-935.

Scharnhorst, Andrea. "Complex Networks and the Web: Insights from Nonlinear Physics." *Journal of Computer Mediated Communication 8* (2003, no 4).

Scharnhorst, Andrea, and W. Ebeling. "Evolutionary Search Agents in Complex Landscapes. A New Model for the Role of Competence and Meta-competence (EVOLINO and other simulation tools)." 2005. http://arxiv.org/abs/physics/0511232.

Scharnhorst, Andrea, and Mike Thelwall. "Citation and Hyperlink Networks." *Current Science* 89 (2005): 1518-1523.

Sleeboom, Margaret. *Academic Nations in China and Japan: Framed by*

Concepts of Nature, Culture and the Universal. Oxford: RoutledgeCurzon, Nissan Series 2004.

Sleeboom, Margaret. "Socio-Genetic Marginalization in Asia. A Plea for a Comparative Approach to the Relationship between Genomics, Governance, and Social-genetic Identity." In *Blood and Data. Ethical, Legal and Social Aspects of Human Genetic Databases,* edited by Gardar Árnason, Salvör Nordal and Vilhjálmur Árnason. Reykjavík: University of Iceland Press, 2004: 39-44.

Sleeboom, Margaret. "Sex Selection and Genetic Screening in Postgenomic Society: Scientistic and Feministic Blinkers." *F-Gens Journal* (March 2004): 114-26

Sleeboom, Margaret. *Genomics in Asia: Cultural Values and Bioethical Practices.* London: Routledge, Kegan Paul, 2004.

Sleeboom, Margaret. "Euthanasia in the Netherlands: Applied and Questioned." In *Bioethics for Informed Citizens across Cultures,* edited by Darryl Macer. Tsukuba: Eubios Ethics Institute, 2004: 104-10.

Sleeboom, Margaret. "Gender in the Post-Genomic Era." In *Rethinking Science and Medicine from the Perspective of Gender in the Post-Human Genome Project Era* edited by Tsuge Azumi. Tokyo: F-GENS, 2004.

Terreehorst, Pauline and Gerard de Vries. "The Parliament of Fashion. In *Making Things Public – Atmospheres of Democracy*, edited by B. Latour and P. Weibel. Cambridge, MA: MIT Press, 2004: 662–669.

Thelwall, M., A. Barlow, and K. Vann. "The Limits of Web-Based Empowerment: Integrated Water Resource Management Case Studies." *First Monday* 10 (2005).

Thelwall, M. and Paul Wouters. What's the Deal with the Web/nlogs/the Next Big Technology: A Key Role for Information Science in E-Social Science Research?" *Lecture Notes in Computer Science* 3507 (2005): 187-200.

Vann, Katie. "On the Valorization of Informatic Labour." *Ephemera: Theory and Politics in Organization* 4 (2004, no. 3).

Vann, Katie, and Geoffrey Bowker. "Instrumentalizing the Truth of Practice." In *The Blackwell Cultural Economy Reader*, edited by N. Thirft and A. Amin. Oxford: Blackwell Press, 2003.

Vann, Katie, and M. Cole. "Method and Methodology in Interpretive Studies of Cognitive Life." In *Mixing Methods in Psychology: The Integration of Qualitative and Quantitative Methods in Theory and Practice,* edited by Zazie Todd, Brigitte Berlich, Suzanne McKeown and David D. Clarke. Oxford, UK: Psychology Press/Taylor and Francis, 2004.

Vasileiadou, E., and Peter van den Besselaar. "Linking Shallow, Linking Deep: Web Use of Scientific Intermediaries." *Cybermetrics* 9 (2005).

Viale, R., & Leydesdorff, L. (2003). Qualità e quantità nella scientometria. In R. Viale, & A. Cerroni (Eds.), *Valutare la Scienza* (pp. 21-45). Soveria Mannelli: Rubbettino. 2003

de Vries, Gerard. "Beware of Research." In *Artistic Research*, edited by A.W. Balkema and H. Slager (L & B – Series of Philosophy of Art and Art Theory 18). Amsterdam/New York: Rodopi, 2004.

de Vries, Gerard. "Democratie, pragmatisme en publieke debatten over medische ethiek." In *De verleiding van de ethiek – Over de plaats van morele argumenten in de huidige maatschappij*, edited by I. Devisch en G. Verschraegen. Amsterdam, Boom, 2005: 181–197.

de Vries, Gerard. "Dienstbare Alfa's." *De Academische Boekengids* 44 (May 2004): 22-23.

de Vries, Gerard. "Eigen Verantwoordelijkheid". *De Groene Amsterdammer 129* (24 September 2005): 33-35

de Vries, Gerard. "Genetic Screening at Work - Risk and Responsibility in the Era of Predictive Medicine." In *The Ethics of Workplace Privacy* edited by S.O. Hansson and E. Palm. Bruxelles, Bern and New York: Peter Lang Pub. 2005: 17-37.

de Vries, Gerard. "De ongekende praktijk van voorspellende genetische testen." In *Genetica van laboratorium naar samenleving*, edited by Gerard de Vries and Klazien Horstman. Amsterdam: Aksant, 2004: 1–13.

de Vries, Gerard. "Politiek, expertise en individuele verantwoordelijkheid in een risicosamenleving. In *Leven in de risicosamenleving*, edited by H. Boutellier. Amsterdam: Amsterdam University Press, 2005: 9-18

de Vries, Gerard. "Politiek van preken en praktijken: het 'normen en waardendebat' als reactie op de 'verplaatsing van de politiek'." In *Bijdragen aan waarden en normen,* edited by P.T. de Beer en C.J.M. Schuyt. Amsterdam: Amsterdam University Press, 2004: 39–54.

de Vries, Gerard. "Stijlen van ethisch argumenteren in de laat-moderne tijd." *Tijdschrift voor Filosofie* (Leuven) (2004): 649-665.

de Vries, Gerard. "Wat te doen met risico's?" *Pech moet weg*, edited by F.J.H. Mertens, Roel Pieterman, C.J.M. Schuyt, and Gerard de Vries. Amsterdam, Amsterdam University Press, 2003: 32–49.

de Vries, Gerard and Ruth Benschop. "Werk, gezondheid en genetica." In *Genetica van laboratorium naar samenleving*, edited by Gerard de Vries and Klazien Horstman. Amsterdam: Aksant, 2004: 140–156.

de Vries, Gerard, and Klazien Horstman, eds. *Genetica van laboratorium naar samenleving*. Amsterdam: Aksant : 2004.

de Vries, Gerard and Klazien Horstman. "Leren van het werk dat laboratorium en samenleving verbindt." In *Genetica van laboratorium naar samenleving*, edited by Gerard de Vries and Klazien Horstman. Amsterdam: Aksant, 2004: 174–192.

Wagner, Caroline S., and Y. C. Lee "In the New Knowledge Network, No Country Is Dominant." *Financial Times*, August 15, 2004.

Wagner, Caroline, and Loet Leydesdorff. "Mapping Global Science Using International Co-Authorships: A Comparison of 1990 and 2000." *International Journal of Technology and Globalization* 1 (2005): 185-208.

Wagner, Caroline, and Loet Leydesdorff. "Network Structure, Self-organization and the Growth of International Collaboration in Science." *Research Policy* 34 (2005): 1608-1618.

Wagner, Caroline, and Loet Leydesdorff. "A Study of Seismology as a Dynamic, Distributed Area of Scientific Research." *Scientometrics* 58 (2003): 89-112.

Wieringa, Nicolien, Anita Hardon, Karin Stronks and Amade M'charek (eds.) *Diversity among Patients in Medical Practice: Challenges and Implications for Clinical Research*. Amsterdam: ASSR/AMC/ZonMw, 2005.

Wieringa, Nicolien, Andrew Herxheimer, Eline van Haastrecht, Anita Hardon, Amade M'charek, and Niek Kiezienga. "Novel Policy Strategies to Diversity in Clinical Research." In *Diversity among Patients in Medical Practice: Challenges and Implications for Clinical Research*, edited by Nicolien Wieringa, Anita Hardon, Karin Stronks and Amade M´Charek . Amsterdam: ASSR/AMC/ZonMw, 2005: 81-113.

Wouters, Paul. "Cybersociologie—een beknopt kookboekje." *Amsterdams Sociologisch Tijdschrift* 30 (2003): 274-300.

Wouters, Paul. "Data on the Move." *NRC/Handelsblad* , 28/29 February 2004: 51.

Wouters, Paul. "Europa als hefboom voor kwaliteit." *Hypothese* 2 (2004): 8-11.

Wouters, Paul. "Nerdi Web on Science and the Internet." *Dlib Magazine* 9 (2003, no. 3).

Wouters, Paul. "Een pleidooi voor creativiteit, deel 3 uit de serie Architecten van het Nederlandse wetenschapsbeleid." *Hypothese* 3 (2004): 4-7.

Wouters Paul. "The Virtual Knowledge Studio for the Humanities and Social Sciences." In *Toverwoord Informatie* edited by E. Dijk, P. Doorn and G. de Jong. Amsterdam: NIWI-KNAW, 2005: 1993-2002.

Wouters, Paul, and D. Gerbec. "Interactive Internet?" *Journal of Computer Mediated Communication 8* (2003, no 4).

Wouters, Paul, Iina Hellsten, Loet Leydesdorff. "Internet Time and the Reliability of Search Engines." *First Monday* 9 (2004, no 10).

Wouters, Paul, and R. de Vries. "Formally Citing the Web." *Journal of the American Society for Information Science and Technology* 55 (2004): 1250-1260.

Wyatt, Sally. "Danger! Metaphors at Work in Economics, Geophysiology and the Internet." *Science, Technology & Human Values* 29 (2004): 242-61.

Wyatt, Sally. "Living in a Network Society: The Imperative to Connect." In *Sustaining Urban Networks, The Social Diffusion of Large Technical Systems* , edited by O. Coutard, R. Hanley, and R. Zimmerman. New York: Routledge, 2005: 135-148.

Wyatt, Sally. "More Information, Better Health?" *i4d, Information for Development* 2 (2004): 10-11.

Wyatt, Sally. "Non-Users also Matter: The Construction of Users and Non-Users of the Internet." In *How Users Matter: The Co-construction of Users and Technology* , edited by Nelly Oudshoorn, and Trevor Pinch. Cambridge, MA: MIT Press, 2003: 67-79.

Wyatt, Sally. "Personal Knowledge: Using Autobiographical Methods in Technology Studies." In *Jahrbuch 2002 des Collegiu Helveticum* edited by Helga Novotny. Zürich: vdf Hochschulverlag AG an der ETH Zürich, 2003: 262-268.

Wyatt, Sally. Review of M. Lie, *He, She and It Revisited: New Perspectives on Gender in the Information Society. Science, Technology & Human Values* 30 (2005): 433-436.

Wyatt, Sally. Review of Daniel J. Paré, *Internet Governance in Transition. Who Is the Master of This Domain? Technovation* 24 (2004): 175-6.

Wyatt, Sally. "Understanding (Information and Communication) Technologies: Lessons from Science and Technology Studies." In *The History and Sociology of Technology: Between Reflection and Documentation.* Bern: Académie suisse des sciences humaines et sociales, 2004: 26-37.

Wyatt, Sally, F. Henwood, A. Hart, and J. Smith. "The Digital Divide, Health Information and Everyday Life." *New Media and Society* 7 (2005): 199-218*.*

Wyatt, S., F. Henwood, A. Hart and J. Smith. "De digitale tweedeling: Internet, gezondheidsinformatie en het dagelijks leven." *Amsterdams Sociologisch Tijdschrift* 30 (2003): 254-273.
Wyatt, Sally, F. Henwood, A. Hart, and H. Platzer. "L'extension des territoires du patient: Internet et santé au quotidien. " *Sciences Sociales et Santé* 22 (2004): 45-68.

Zhou, P., and Loet Leydesdorff. "China's Research Outcome in Nanotech Takes the Lead in the World in 2004: The World Position of China's Publications" [original in Chinese]. *Chinese Science and Technology Daily,* 23 October 2004.

Zhou, P., and Loet Leydesdorff. *Chinese Journal of Scientific and Technical Periodicals* 16 (2005): 773-780.

Zinken, J., I. Hellsten, and B. Nerlich. "What Is 'Cultural' About Conceptual Metaphors?" *International Journal of Communication 13* (2003): 5-29.

Appendix III
Ph.D. Dissertations:

Heimeriks, Gaston. (2005). *Knowledge production and communication in the information society*. Doctoral dissertation, University of Amsterdam.
Promotor: prof. dr P. van den Besselaar

Anne Loeber. (2004) *Practical Wisdom in Risk Society*
Promotor: prof. dr John Grin

Verhoeven, Pieter. (2005). *Stuivertje-wisselen: Over de plaats van wetenschap en journalistiek in medische televisieprogramma's in Nederland tussen 1961 en 2000*. Doctoral dissertation, University of Amsterdam.
promotor: prof. dr Klaus Schoenbach; copromotor: dr. R. Hagendijk

Wagner, C. S. (2004). *International collaboration in science: A new dynamic for knowledge creation*.
Promotor: prof. dr Stuart Blume; copromotor: dr. Loet Leydesdorff

Woudstra, Lilian (2005, October). *Dangerous liaisons? Source characteristics that influence the use of weak ties in information seeking.* Doctoral dissertation, University of Amsterdam.
promotor: prof. dr A.A. van Ruler

Current Ph.D. Projects

Bröer, Christian. *Sound, Meaning and Politics.*
Promotor: prof. dr Maarten Hajer

Blankesteijn, Marlous. *Reflexive Design: Practices for Defining System Innovation.*
Promotor: prof. dr John Grin; copromotor: dr Chunglin Kwa

Beek, Jan van de. *The Production, Distribution and Consumption of Scientific Knowledge Regarding the Economic Effects of Immigration During, 1965-2005.*
Promotors: prof. dr John Grin, prof. dr. Jan Rath

Dirksen, Vanessa. *Towards a Cultural Understanding of ICT Spaces*
Promotor: prof dr R Maes, co-promotor: dr S Wyatt

Gerrits, Trudie. *Autonomy versus Authority. Ethnographic Study of the Dynamics of Changing 'Borders' in the Use of Infertility Treatments in a Dutch Hospital.*

Haar, Erica ter. *Reflexive Governance: Shaping the Dynamics of System Innovation.*
Promotor: prof. dr John Grin; co-promotor dr Jan van Tatenhove

Kohinor, Mirjam. *Living with Hemoglobinopathy: An Ethnography of Care*.

Promotors: Amade M'charek & Annemarie Mol (ZonMW)

Lucio-Arias, Diana. *Knowledge-based innovations and scientific communication: communication at the interfaces between science and technology*
Promotor: Loet Leydesdorff

Nevejan, Caroline. *Presence in Learning Environments*
Promotor: Prof dr C Hamelink, co-promtor: Dr S Wyatt

Oostveen, Anne-Marie. *Context Matters –A Social Informatics |Study on E-Voting.*
Promotor: Prof. Dr Peter van den Besselaar.

Paul, Katarina. *Food for Thought: A Comparative Study of Administrative Innovations in Food Safety Regulations after the BSE Crisis*
Promotor: prof. dr Maarten Hajer; co-promotor dr Anne Loeber

Schuitmaker, Tjerk Jan. *Palliatieve zorg en zorg voor chronisch zieken: over de grenzen van het zorgsysteem*
Promotor: prof. dr John Grin; co-promotor: dr Amade M'charek

Sierra, Maria Olarta. *Achieving the Desirable Nation: Abortion and Prenatal Tests in Colombia. The Case of Amniocentesis.*
Promotors: prof. dr Stuart Blume and dr Amade M'charek

Toom, Victor, *A DNA Profile's Capacity for Rights. The Interference between Science and the Law in Forensic DNA Practice in the Netherlands.*
Promotor: prof. dr John Grin; co-promotor: dr Amade M'charek

Vasileiadou, Eleftheria. *Media configurations and collaboration in distributed teams*
Promotor: Prof. dr Peter van den Besselaar.

Witschge, Tamara, In*/difference Online: The Issue of Immigration on the Internet*
Promotor: prof dr K Brants, co-promotor: dr S Wyatt

Zhou, Ping, *Mapping the Knowledge Base of the Chinese Economy*
Promotor: dr Loet Leyedesdorff

Appendix IV
Editorial Positions

Amsterdamska, O.   Editor, *New Handbook of Science and Technology Studies* (Society for the Social Studies of Science and Mit Press, 2007) 2000-07

O.Amsterdamska, Member of the Editorial Board of the *American Sociological Review* 2003-2006

Bervoets, L Editor of '*Techniek in Nederland in de Twintigste Eeuw*, Zutphen: Walburg Pers:

Bervoets, L. Member of the Editorial Board of *Tijdschrift voor Genderstudies* 1988-.

Bervoets, L. Review editor *European Journal of Women's Studies* 1999-.

Besselaar, P. van den. Associate editor of *The Information Society*

Besselaar, P. van den Associate *editor Journal for Community Informatics*

Besselaar, P. van den. Member of the Editorial Board of *Artificial Intelligence and Society*

Grin, John Member of the Editorial Board, *International Journal of Foresight & Innovation Policy*

Hagendijk, R. Member of the Advisory Board of *Jaarboek voor wetenschap en technologie onderzoek 2004-*

Hagendijk, R. Collaboarting Editor, *Science, Technology and Human Values*

Hajer, M., Member of the Editorial Advisory Board *of Evidence and Policy*, 2005 -

Hajer, M., Member of the Editorial Advisory Board of *Policy and Society*, 2005 –

Hamelink, Cees J., Member of the Editorial Board of *Africa Media Review*

Hamelink, Cees J., Member of the Editorial Board of the *Indian Journal of Communication*

Hamelink, Cees J., Member of the Editorial Board of *Media Development*

Hamelink, Cees J., Member of the Editorial Board of *Discourse and Society*

Hamelink, Cees J., Member of the Editorial Board of the *Asian Journal of Communication*

Hamelink, Cees J., Member of the Editorial Board of the *International and Intercultural Communication Annual*

Hamelink, Cees J., Member of the Editorial Board of the *Journal of International Communication*

Hamelink, Cees J., Member of the Editorial Board of *Trends in Communication*

Wyatt, S., Member of the Editorial Board of *Graduate Journal of Social Science,* (London School of Economics/Vrije Universiteit Amsterdam) 2004-cont.

Appendix IV

Honours:

M. Leenders , Article published in 2002 in the *Journal of Product Innovation Management* (together with B. Wierenga) was selected as one of six highlights in the history of the journal (high ISI ranked top 10 journal in Management; no 1 ranked in innovation and technology management).

L. Leydesdorff, Honorary Chair, Economics Faculty, Université de Lausanne, Switzerland (1 maart - 1 augustus 2005)

L. Leydesdorff , Highly Commended Award 2005 of the Literati Club for the paper "Clusters and Maps of Science Journals Based on Bi-connected Graphs in Journal Citation Reports," *Journal of Documentation* 60(4), 2004, 317-427.

L. Leydesdorff, 2003, Derek de Solla Price Award for Scientometrics.

L. Leydesdorff, Best Paper award for "Hyper-incursion and the Globalization of a Knowledge-Based Economy," Invited paper for the 7th Intern. Conf. on Computing Anticipatory Systems CASYS'05, Liège, Belgium, August 8-13 (2005).

R. Rogers, "Best 2005 Information Science Book of the Year presented by the American Society for Information Science & Technology (ASIS&T)" for *Information Politics on the Web*, MIT Press, Cambridge, MA / London, 2004 / 2005.

Appendix V
Organization of Scientific Conferences and Workshops

Balmer, B. and Wyatt, S. (2005, April 27-29). *Middle Range Theories in Science and Technology Studies*. International workshop organized by University College London and University of Amsterdam.(28 participants).

Beaulieu, A. (2003) Organization of workshop Objects of Objectivity conference with Jaap Bos (UU) and Marcel Boumans (UVA/LSE), with funding from NWO and WTMC. Held at UVA, Amsterdam (30 participants).

Besselaar, P. van den (2004, July 27-31). *Eighth biannual participatory design conference*, University of Toronto, Canada (200 participants).

Besselaar, P. van den (2005, June). *Co-organizer of the 4th digital cities workshop*, Milano, Italia. (30 participants).

Gomart, E. (2004, August) Organizer of a a session 'Technologies of Politics' at the conference of the Society for the Studies of Science, Paris.

Grin, J. (June 2003) . Expertise en beleid over milieu en gezondheid, Antwerpen: Universiteit van Antwerpen.

Hajer, M (April 2003), Convenor of of the workshop 'Assessing Emergent Forms of Governance: European Public Policies Beyond the 'Institutional Void" at the ECPR Joint Sessions at Edinburgh (together with Prof. Dr. Herbert Gottweis, Department of Political Science, University of Vienna).

Leydesdorff, L. (2003, January-July 2003). Colloquium Science & Technology Dynamics, University of Amsterdam. (main organizer)

Leydesdorff, L. (2003, May 2-5). Dynamics of the Informational Interface, Workshop Toronto.

Leydesdorff, L. (2003, May 18-21). Co-convenor of the Fifth International Conference of the Triple Helix of university-industry-government relations, Milano/Torino.

Leydesdorff, L. (2003, April 28). Meeting Program Committee *Current Research Information Systems*, Brussels.

Leydesdorff, L. (2003, August 11-16). Computing Anticipatory Systems, CASYS'03 (100 participants). Liège, Belgium. (Member of the International Program Committee.)

Leydesdorff, L. (2003). Local (ASCoR) coordinator of the Network of Excellence PRIME (Policies for Research and Innovation in the Move towards the European Research Area).

Leydesdorff, L. & **Wagner, C. S.** (2004, June 16). *Network analysis: Exploring pathways among three hubs.* A workshop convened by RAND Europe and the University of Amsterdam in support of a project for the European Commission applying network analysis to research evaluation (ERAnets). Brussels.

Leydesdorff, L. (2004, September 23-25). *Program committee of eighth international conference on science and technology indicators*, Leiden.

Leydesdorff, L. (2005, May 18-21). Co-convenor of the *Fifth International Conference of the Triple Helix of University-Industry-Government Relations*, Turin, Italy.

Leydesdorff, L. (2005, August 8-13). *International Program Committee of the 7th Intern. Conference. on Computing Anticipatory Systems CASYS'05*. Liège, Belgium.

Rogers, Richard. "Life of Issues 8: The News about Networks," de Balie Center for Culture and Politics, Amsterdam, sponsored by the Ford Foundation, New York, November 2003.

Rogers, Richard. "Life of Issues 7: Do Formats Organize Networks?," Cartagena, Colombia, sponsored by the Open Society Institute, Budapest, October 2003

Rogers**, Richard.** "Life of Issues 9: Making Issues into Rights?," de Balie Center for Culture and Politics, Amsterdam, sponsored by the Ford Foundation, New York, June 2004.

Scharnhorst, A. (November 2002 - October 2005). Coordination of the EU funded project *Web indicators for science, technology and innovation research* - WISER.

Scharnhorst, A. (2005). *Co-organizer of Topical workshop 'Innovation Networks - New Approaches in Modelling and Analyzing'.* Funded by the EXYSTENCE, Network of Excellence, 6th Framework Programme, EC.

Scharnhorst, A., & **Beaulieu, A.** (2003-2004). Project *Competence and innovation in research networks - modeling self-organized learning of heterogeneous agents*

Scharnhorst, A., Besselaar, P. van den, & Wouters, P. (2004 August 25-28), What does the Web represent? From virtual ethnography to web indicators, session at Public proofs, science, technology and democracy, Joint 4S & EASST Conference, Ecole des Mines, Paris.

Vann, K. (2003, July). Stream on *Materialities of Organizing*. 19th Colloquium of the European Group for Organization Studies (16 part.). Copenhagen Business School. Copenhagen, Denmark. With Signe Svenningsen, Brit R. Winthereik, Julie Sommerlund, and Steven D. Brown.

Wouters, P., de Wit, H., & Pinkster, H. (2003, September 24-25). *Cosmopolitan Cities, Globalisation and Higher Learning*, Symposium at the occasion of the Opening of the International School for Social Sciences and Humanities, University of Amsterdam.

Wouters, P. (2003, October 16-19). *What does "quality" actually mean on the internet?* Panel session at the Association of Internet Researchers 2003 Conference Broadening the Band, Toronto, Canada.

Wouters, P. (2003, October 22-24). *Member of Programme Committee 3[d] IEEE Conference on Standardization and Innovation in Information Technology*, Delft University of Technology, Delft, http://www.siit2003.org/

Wouters, P. (2003). Regular NERDI LECTURE series 2003, NIWI-KNAW, Amsterdam.

Wouters, P. (2004), Member of the Programme Committee of *Interactive Agenda Setting in the Social Sciences*, a programme of the Economic and Social Science Research Council ESRC, UK.

Wouters, P. (2004, September 23-25), Poster Session. Webindicators: indicators of the future? at the *S&T Indicators 2004*, Leiden, http://conference.cwts.nl/.

Wouters, P. (2004), Member of the Science Advisory Group to the Internet Preservation Consortium.

Wouters, P. (2004 September 23-25), Member of Programme Committee *Science and Technology Indicators 2004*, University Leiden. http://conference.cwts.nl/.

Wouters, P. (2004), Member of the Open Access Citation Index Working Group of the Soros Foundation.

Wouters, P. (2004), Member of the Editorial Board Jaarboek Kennissamenleving. Yearbook KnowledgeSociety.**Wyatt, S.**   (2003, January 17). One day international symposium, *Gender and ICT: Where are we at? (*100 part), Amsterdam.

Wouters, P. (2005, November 13-15). Panel at *Past, Present and Future of Research in the Information Society.* Promise and Practice of Open Access to e-Science. World Summit of the Information Society, Tunis, Tunisia

Wouters, P. (2005, November 13-15). International Program Committee of *Past, Present and Future of Research in the Information Society*, World Summit of the Information Society, Tunis, Tunisia

Wyatt, S. (2004, January 20). Member of programme committee, *Gender & ICT: Strategies of inclusion*, Brussels (150 participants).

Wyatt, S. (2004, August 26-28). Member of programme committee for joint 4S/EASST Conference, *Public proofs. Science, technology and democracy* (1100 participants).

Appendix VI
EXTERNAL RESEARCH FUNDING AND PROJECTS, 2003-2005

Bervoets, L. "Nieuwe producten, nieuwe consumenten. Een geschiedenis van een wisselwerking." NWO project.

Bervoets, L. Research program 'Bouw,' Techniek in Nederland in de 20ste eeuw." U.v.A., Stichting Vakopleiding Bouw (thans Bouwgroep Radius), Ministerie van Economische Zaken, Bouwcenter en BAM.

Besselaar, Peter van den. "A Comparative Study of the Diffusion and Use of Email in Four Countries." Organizational Consequences of E-mail Introduction, Adoption and Diffusion (COMMORG), EU Fifth Framework Program (2002-2005).

Besselaar, Peter van den, "A Metadata Management System for Social Survey Data." Metadater, €50,000 (2003-2006).

Besselaar, Peter van den, "Moress: Mapping the European Knowledge Base in the Social Sciences and the Humanities." MORESS (EU), €20,000 (2003-2005).

Besselaar, Peter van den, "Science System Assessment." Rathenau Institute: (2004: € 400,000; 2005: € 800,000; 2006, M€ 1.6).

Besselaar, Peter van den, "True-Vote: Developing and Evaluating E-voting Technologies." Truevote. €105,000 (2001-2003).

Besselaar, Peter van den, Two junior researchers for 18 months. NWO, €190,000. (2005).

Besselaar, Peter van den, "Web-Indicators of Knowledge Production and of Scholarly Communication." EICSTES. kfl. 600 (2001-2004).

Blume, S. "Whooping Cough Vaccine and Vaccination in the Netherlands since 1950." Wellcome Trust Programme in the History of Medicine (2003).

Christian Bröer, "Advies klachtenanalyse." Commissie Regionaal Overleg Schiphol, €800.

Grin, John, Contribution to the Technology Assessment Steering Group. Ministerie van LNV, €5,000 (2005).

Grin, John, "Extension of Monitoring and Evaluation of Projects of the Innovation Network Agrocluster en Groene Ruimte." €38,000 (2004).

Grin, John, "Extension of Monitoring and Evaluation of Projects of the Innovation Network Agrocluster en Groene Ruimte." €78,000 (2003).

Grin, John, "Evaluatie werken met toekomstbeelden in de Programma's 400: Systeeminnovatie in de plantaardige productie." WUR-PPO. € 5,000 (2005).

Grin, John, "International Security and Monitoring." Contribution to the EU project GMOSS, € 9,500. (2005).

Grin, John (with prof. Jan Rotmans (UM), prof. Johan Schot (TUE) en prof. dr. Ruud Smits (UU)), Kennisnetwerk Systeeminnovaties. 10 M€ from Bsik funds (2004).

Grin, John, (with drs. Loesje Alkema), "Onderzoek ter ondersteuning van het ontwerp voor beleid voor een basispakket voor gehandicapten in de Gemeente Amsterdam." Dienst Maatschappelijke Ontwikkeling van de Gemeente Amsterdam. Approx. €30,000 (2004).

Grin, John, (with dr. A.A. M'charek): "Recht-Vaardigheid van het DNA Profiel: Over de Wisselwerking tussen Wetenschap en Recht in de Praktijk van het Forensisch DNA Bewijs in Nederland." NWO-Programma Genomics, € 160,000 (2003).

Grin, John, "Werken aan systeeminnovaties. Methodische begeleiding programma's Systeeminnovatie in de Veehouderij." WUR-Animal Sciences Group, € 24,000 (2006).

Grin, John, "Werken aan systeeminnovaties." A course for the SEO Bio-energy chains project, Wageningen UR, €4,500 (2003).

Hagendijk, Rob, "Pluriformiteit, verantwoordelijkheid en robuustheid: Op zoek naar een publiek-ethisch en bestuurlijk kader voor ethische dilemma's bij genetische modificatie." NWO-subsidy Ethiek en beleid (#2001/04252/GW, since 2001)

Hagendijk, Rob "Science, Technology and Governance in Europe." EU Thematic network project STAGE (EU-subsidy, HPSE-CT-2001-50003; 2001-2005).

Hagendijk, Rob, (With Nora van der Linden and Jeanette Mak) "Wij Amsterdammers, Expertisescan Radicalisering, Terrorisme en Preventie." Afdeling Onderzoek en Statistiek, Gemeente Amsterdam (2005).

Hajer, Martin, "Food for Thought: A Comparative Analysis of Institutional Innovation after the BSE-crisis in Western Europe." NWO subsidy for proposal €135,800 (2004).

Hajer, Martin, PAGANINI. "Study of Participatory Practices in Selected Key Areas of the 6th EU Framework Programme for Research and Technology." STRAP project (€825,000 total; UvA ASSR share: €161,000 (2004).

Hajer, Martin, "Planning Nature and Landscape: Under What Circumstances Ddoes Expertise Impede or Enhance Collective Policy Making?" NWO subsidy for GAMON programme proposal €371,687 (2004).

Hajer, Martin, "Rethinking Spatial Planning." ('Naar een plan dat werkt'). Ministry VROM (2003).

Hardon, A., AIDS Medicines in Resource-poor Settings: Learning from District-Level Transformations in Health Cultures and Care Arrangements in Uganda and South Africa." Ministry of Foreign Affairs/DGIS, €370,944 (2005-2008).

Hardon, A., "Aids Medicines in Resource Poor Settings." (Expert meeting and start). AIDS Fonds, € 31,000 (2004-2005).

Hardon, A., "Assessing the Benefits and Risks of Public Private Interactions." HAI , Health Action International Fd., €45,000 (2004-2005).

Hardon, A. (with N. Wieringa), "Diversiteitsproject 'Klinisch Onderzoek.' Mogelijkheden en beperkingen in klinisch onderzoek. ZONMW €144,781 (2004).

Hardon, A., "Towards a Continuum of Care in Prevention of Mother to Child Transmission Programs:-Participatory Action-Research in Vietnam and Indonesia." DGIS, Ministry of Foreign Affairs, €240,053 (2005-2008).

Hendriks Carolyn M. (with Tjitske Akkerman), "Qualitative Research (Media Analysis and Elites Interviews) on the Dutch Citizens' Assembly on Electoral Reform." Dutch Ministry of Internal Affairs (BZK) €30,000.

Loeber Anne, "Expliciteren leerervaringen Programma Renewable Energy Action (REACT)." Advisory work in commission of Competentiecentrum Transities, SenterNovem. Draft contract winter 2005; final decision pending.

Leydesdorff, Loet (wth Janelle Ward), Contribution to a European project on 'Science Shops.' INTERACTS (2004).

Leydesdorff, L. (with I. Hellsten) "Dynamics of Metaphors in the Communication of Biotechnology." EU Marie-Curie Fellowship.

Leydesdorff, Loet, EU Network of Excellence PRIME (Policies for Research and Innovation in the Move towards the European Research Area). European Commission (since 2003).

M. Leenders and prof. dr. T. ter Bogt (fellow: J. van Telgen) BUMA, 2005-2006 Festival projecten.

M'charek, A and D. Willems, (Researchers: Dr. N. Wieringa and V. Toom), "Alledaagse Medische Technologie." Rathenau Institute (2003).

M'charek A. (with M. Kohinor; M. Kuijper) "Verkenning van de wenselijkheid en mogelijkheden voor invoering van primaire- en secundaire preventie van hemoglobinepathieen." NWO-ZONMW, €116,900 (2004- 2008).

Otterloo, A. "Het internationale techniekhistorische programma Tensions of Europe." (2003).

Sleeboom, M., "Socio-Genetic Marginalization in Asia Programme (SMAP). A Comparative Approach to the Relationship Between Genomics, Governance, and Social Identity." NWO/Genomics Programme (2004-2008).

Wagner, C., "Evaluation of Networks of Collaboration Among Participants in IST Research and their Evolution to Collaborations in the European Research Area." (ERA). ERAnets project, €400,000 (2004).

Wagner, C., "Tapping in the Grid: Mapping Global Collaborations in Science," Rockefeller Foundation, $100,000.

Wyatt, S. (with L. van Zoonen, and N. van Doorn) "Gender Bending on the Internet." NWO (2003-).

Wyatt, Sally. "Technology and Health Information in the New Economy." Canadian Social and Humanities Research Council, CND $ 3 million (2003).