

Curriculum vitae Ibo van de Poel

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1. Personal data

Title(s), initial(s), first name, surname: dr. ir. Ibo van de Poel
Male/female: Male
Date and place of birth: 27-10-1966 Rotterdam, the Netherlands
Nationality: Dutch

Address:
Ibo van de Poel
Willem de Zwijgerlaan 40
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2. Education

Master's ('Doctoraal')

University/College of Higher Education: University of Twente
Date: 28-8-1991
Main subject: Philosophy of Science, Technology and Society (combined with a Bsc in Mechanical Engineering)

Doctorate

University/College of Higher Education: University of Twente
Date: 2-4-1998
Supervisor ('Promotor'): prof. dr. A. Rip
Title of thesis: Changing Technologies: A Comparative Study of Eight Processes of Transformation of Technological Regimes

3. Work experience

- 1-7-2007 – present Associate professor (UHD), Section of Philosophy, Technical University Delft
- 1-9-2009 – 1-7-2010 Fellow-in-residence Netherlands Institute for Advanced Studies (NIAS)
- 1-9-2006 – 1-9-2009 Managing Director 3TU.Centre for Ethics and Technology (www.ethicsandtechnology.eu)
- 1-1-2005 – 1-1-2008 Several visits as visiting fellow to the Applied Ethics Center for Engineering Education, Kanazawa Institute of Technology, Japan.
- 1-8-1996 – 1-7-2007 Assistant professor (UD), Section of Philosophy, Technical University Delft.
- 1-6-1992 – 1-8-1996 AIO (PhD-student), Department of Philosophy of Science and Technology, University of Twente.
- 1-12-1991 – 1-3-1992 Research Assistant (Medewerker Onderzoek), Department of Philosophy of Science and Technology, University of Twente.
- 1-9-1991 – 1-12-1991 Project Assistant, Department of Philosophy of Science and Technology, University of Twente.

4. Research

Main research topics

Engineering ethics; values in engineering design; ethics of technological risks; ethics in engineering research & development; nano-ethics; responsibility in engineering; responsible innovation; ethical parallel research; science and technology studies; technology as social experimentation.

Current and past research projects

- Synth-ethics: ethical and regulatory challenges in synthetic biology. EU 7TH Framework Program. (2009-present).
- Area editor ethics of engineering and technology of the Springer On-line Encyclopedia of Applied Ethics TERP (The Ethics Reference Project), with Peter-Paul Verbeek. Editors-in-chief are Thomas Pogge, Seumas Miller and Jeroen van den Hoven (2008-present).
- Moral responsibility in R&D Networks (NWO research project) (2007-present) Project leader.
- Handbook Philosophy of Technology and the Engineering sciences (general editor Anthonie Meijers). Co-editor of the part on "Norms and Values in Technology and Engineering" (2006-2009).
- Ethical aspects of risks of the transition from lab-scale model to full-size open plant in bioprocess technology (NWO-STW research project) (2005-2007) Project leader.
- Modelling infrastructures as socio-technical systems (BSIK project) (2005-2007).

PhD supervision

- Anke van Gorp, Ethical aspects of engineering design processes (2001-2005 PhD awarded)
- Behnam Taebi, Ethics in nuclear reactor development (2007-2010 submitted to committee)
- Urjan Jacobs, Ethics in nanobiotechnological practices (since 2007)
- Neelke Doorn, Responsibility and Wide Reflective Equilibrium in R&D networks (since 2007)
- Daan Schuurbiens, Responsibility in biotechnological research (since 2008)

5. Teaching

Teaching experience

I have taught a large number of courses with attendances ranging from 10 students to 250 students. Most courses I have taught are on ethics and technology, or engineering ethics. Courses I have taught over the years include:

- ethics and technology (for different engineering schools including: aerospace engineering, electronic engineering, geodetic engineering, industrial design, civil engineering, applied physics and chemical engineering)
- philosophy of science
- philosophy of technology

I am involved in the teaching of the international Master Philosophy of Science, Technology and Society (PSTS) (see <http://www.psts.utwente.nl/>). I also teach courses for PhD students (both in engineering and in philosophy) and given seminars for professional engineers.

Overview of courses taught since 1997/1998

- Ethics for aerospace engineering. Compulsory course. Responsible teacher and course manager. Ranging from 60-200 students. Years: 1997-1998 (only tutorials), 1998-1999, 1999-2000, 2000-2001, 2001-2002, 2002-2003, 2003-2004, 2004-2005, 2005-2006, 2006-2007, 2007-2008, 2008-2009.
- Ethics for electronic engineering, compulsory course, tutorials and essay supervision. Ranging from 60-100 students. Year 1997-1998, 1998-1999, 1999-2000, 2000-2001.
- Ethics for chemical engineering, compulsory course, tutorials and essay supervision. Year 1997-1998
- Ethics en Geodesy, Compulsory course. Responsible teacher. 20-40 students. Year 1998-1999, 1999-2000, 2000-2001.
- Philosophy, Technology Assessment and Ethics for civil engineering, Compulsory course. Responsible teacher (together with Karel Mulder). 250 students. Year 2002-2003.
- Ethics and responsibility, elective, Responsible teacher. 40 students. Year 1997-1998.
- Introduction to the philosophy of technology, elective. 10 students. Year 2000-2001, 2001-2002.
- Ethics for industrial engineers and architects, elective Responsible teacher (together with Peter Lloyd). 10-40 students Year 2002-2003, 2003-2004, 2004-2005, 2005-2006.
- Ethics for management of technology. Tutorials. 30 students Year: 2008-2009.
- Ethics and technology 1 (Master PSTS), compulsory course, contribution. Year 2004-2005, 2005-2006.
- Ethics and technology 2 (Master PSTS), compulsory course. Contributions. Year 2004-2005, 2005-2006, 2006-2007, 2007-2008, 2008-2009.

Teaching related activities (selection):

- Development of educational material for ethics and technology courses at the Technical University Delft after the decision of the board of the TUD to make ethics and technology a compulsory course for all engineering students.
- Involvement in the development of AGORA (www.ethicsandtechnology.com), a web-based tool for engineering ethics teaching, project leader of Agora (2006-2009), and introduction of Agora in Japan at the Kanazawa Institute of technology (KIT).
- Co-author of first Dutch textbook for students in ethics and engineering. The English version of the book will be published by Blackwell and appear in 2010.
- Involvement in the international SOCRATES/ERASMUS project "The Cultured Engineer." Development of a module on "The Historical, Philosophical and Ethical Foundation of the Engineering Profession."
- Involvement in the development of the master program for Philosophy, Science, Technology and Society (PSTS) at University of Twente (with involvement of the Technical University Delft).
- Involvement in the development of a minor for students of the Haagse Hogeschool (Technical College The Hague) to develop their academic skills before choosing for a Master at Technical University Delft
- Contributions to the preparation of a PhD program on ethics and technology for the 3TU.Centre for Ethics and Technology.

6. Publications

Articles in international refereed journals

1. Jacobs, J. F., I. Van de Poel and P. Osseweijer (forthcoming). Sunscreens with titanium dioxide (TiO₂) nano-particles. A societal experiment. *Nanoethics*
2. Nihlén Fahlquist, J. and I. Van de Poel (forthcoming). Technology and parental responsibility. The case of the V-chip. *Science and Engineering Ethics*
3. Van de Poel, Ibo, and Sjoerd D. Zwart. (2010). Reflective Equilibrium in R&D Networks. *Science, Technology & Human Values* **35**(2): 174-199
4. van de Poel, Ibo. (2008). The Bugs Eat the Waste: What Else is There to Know? Changing Professional Hegemony in the Design of Sewage Treatment Plants. *Social Studies of Science* **38**(4):605-634.
5. Lloyd, Peter, and Ibo van de Poel. (2008). Designing Games to Teach Ethics. *Science and Engineering Ethics* **14**(3):433-447.
6. van de Poel, I. (2008). How Should We Do Nanoethics? A Network Approach for Discerning Ethical Issues in Nanotechnology. *Nanoethics* **2**: 25-38.
7. Van de Poel, I. (2007). Methodological problems in QFD and directions for future development. *Research in Engineering Design* **18**: 21-36.
8. van de Poel, I. and P. Kroes (2007). Technology and normativity. *Techne* **10**(1): 1-6.
9. Van de Poel, I. and L. Royakkers (2007). The ethical cycle. *Journal of Business Ethics* **71**(1): 1-13.
10. Zwart, S. D., I. Van de Poel, H. van Mil and M. Brumsen (2006). A network approach for distinguishing ethical issues in research and development. *Science and Engineering Ethics* **12**(4): 663-84.
11. Ottens, M., M. Franssen, P. Kroes & I. van de Poel (2006). Modelling infrastructures as socio-technical systems. *International Journal of Critical Infrastructures* **2**(2-3): 133-145.
12. Kroes, P., M. Franssen, I. van de Poel and M. Ottens (2006). Treating socio-technical systems as engineering systems: Some conceptual problems. *Systems Research and Behavioral Science* **23**(6):803-814.
13. Van de Poel, I. & A. Van Gorp (2006). The need for ethical reflection in engineering design. Type of design and design hierarchy. *Science, Technology & Human Values* **31**(3): 333-360.
14. Van de Poel, I. & P.-P. Verbeek (2006). Ethics and engineering design. *Science, Technology & Human Values* **31**(3): 223-236.
15. Van der Burg, S. & I.R. van de Poel (2005). Teaching ethics and technology with Agora, an electronic tool. *Science and Engineering Ethics* **11**(2): 277-97.
16. Devon, R. & I. Van de Poel (2004). Design Ethics: The Social Ethics Paradigm. *International Journal of Engineering Education* **20**(3): 461-469.
17. Van de Poel, I.R. (2003). The Transformation of Technological Regimes. *Research Policy* **32**(1): 49-68.
18. Van de Poel, I.R., M. Franssen & W. Dolfsma (2002). Technological Regimes: Taking Stock Looking Ahead. *International Journal of Technology, Policy and Management* **2**(4): 482-495.
19. Van de Poel, I.R., A.R. Hale & L.H.J. Goossens (2002). Safety Management in the Dutch Oil and Gas Industry: The Effect on the Technological Regime. *International Journal of Technology, Policy and Management* **2**(4): 407-433.
20. Van de Poel, I.R., H. Zandvoort & M. Brumsen (2001). Ethics and Engineering Courses at Delft

University of Technology: Contents, Educational Setup and Experiences. *Science and Engineering Ethics* **7**(2): 267-282.

21. Van de Poel, I. (2001). Investigating Ethical Issues in Engineering Design. *Science and Engineering Ethics* **7**(3): 429-446.
22. Brumsen, M. & I. van de Poel (2001). Introduction to a Special Section on Research in Engineering Ethics: Towards a Research Programme for Ethics and Technology. *Science and Engineering Ethics* **7**(3): 365-378.
23. Van Gorp, A. and I. van de Poel (2001). Ethical Considerations in Engineering Design Processes. *IEEE Technology and Society Magazine* **20**(3): 15-22.
24. Zandvoort, H., I.R. van de Poel & M. Brumsen (2000). Editorial: Ethics in the Engineering Curricula: Topics, Trends and Challenges. *European Journal of Engineering Education* **25**(4): 291-302.
25. Van de Poel, I. (2000). On the Role of Outsiders in Technical Development. *Technology Analysis & Strategic Management* **12**(3): 383-397.

Contributions to encyclopedia

26. Franssen, Maarten, Gert-Jan Lokhorst, and Ibo van de Poel. (2009). Philosophy of Technology. *The Stanford Encyclopedia of Philosophy* (Fall 2009 Edition). E. N. Zalta.
27. Van de Poel, I. (2005). Engineering Design Ethics. *Encyclopaedia of Science, Technology and Ethics*. Carl Mitcham. Detroit, MacMillan Reference USA.

Articles in national refereed journals

28. Van de Poel, I. (1994). De wereld van de legbatterij. *Kennis en Methode* **18**(4): 315-340.

Books

29. Van de Poel, I. and L. Royakkers. With contributions from Peter-Paul Verbeek and Michiel Brumsen. (forthcoming). *Ethics, technology and engineering*. Blackwell.
30. Vermaas, Pieter, Peter Kroes, Ibo Van de Poel, Maarten Franssen, en Wybo Houkes. (2009). *Kernthema's in de technische wetenschap*. Boom.
31. Royakkers, L., I. van de Poel en A. Pieters (2004). *Ethiek & Techniek. Morele overwegingen in de ingenieurspraktijk*. Baarn, HBuitgevers.
32. Van de Poel, Ibo (1998). *Changing Technologies. A Comparative Study of Eight Processes of Transformation of Technological Regimes*. Ph.D.-Thesis. Enschede, Twente University Press. Mumford series part 1.

Edited books

33. Van de Poel, Ibo, and David E. Goldberg, eds. (2010). *Philosophy and engineering. An emerging agenda*. Dordrecht: Springer.
34. Meijers, Anthonie, ed. (2009). Handbook of the philosophy of science. Volume 9: Philosophy of technology and engineering sciences. Elsevier. Associate editors: H. Radder, P.A. Kroes, W. Houkes, S.D. Zwart, I.R. Van de Poel, and S.O. Hansson
35. Bolkestein, Frits, Jeroen van den Hoven, Ibo van de Poel, en Ilse Oosterlaken, red. (2009). *De politiek der dingen. De verwevenheid van ethiek en technologie*. Budel: Damon.

Contributions to books

36. Van de Poel, Ibo. (2010). Philosophy and engineering: Setting the stage. In *Philosophy and engineering. An emerging agenda*. I. Van de Poel and D. E. Goldberg. Dordrecht, Springer: 1-11.
37. De Kreuk, Merle, Ibo Van de Poel, Sjoerd D. Zwart, and Mark C. M. van Loosdrecht. (2010). Ethics in innovation: cooperation and tension. *Philosophy and engineering. An emerging agenda*. I. Van de Poel and D. E. Goldberg. Dordrecht, Springer: 215-226.
38. Van de Poel, Ibo. (2009). Values in engineering design. *Handbook of the philosophy of science. Volume 9: Philosophy of technology and engineering sciences*. A. Meijers. Elsevier: 973-1006.
39. Van de Poel, Ibo. (2009). Introduction to part V: Norms and Values in Technology and Engineering. In *Handbook of the philosophy of science. Volume 9: Philosophy of technology and engineering sciences*. A. Meijers. Elsevier: 883-886.
40. Van de Poel, Ibo. (2009). The introduction of nanotechnology as a societal experiment. *Technoscience in progress. Managing the uncertainty of nanotechnology*. S. Arnaldi, A. Lorenzet and F. Russo. Amsterdam: IOS Press.
41. Van de Poel, Ibo. (2009). De Oosterscheldekering. Een voorbeeld van waardenbewust ontwerpen. In *De politiek der dingen. De verwevenheid van ethiek en technologie*. F. Bolkestein, J. Van den Hoven, I. Van de Poel en I. Oosterlaken. Budel: Damon: 63-76.
42. Van den Hoven, Jeroen, en Ibo van de Poel. (2009). De politiek van technische artefacten. Een slotbeschouwing. *De politiek der dingen. De verwevenheid van ethiek en technologie*. F. Bolkestein, J. Van den Hoven, I. Van de Poel en I. Oosterlaken. Budel: Damon: 185-193.
43. Kroes, Peter, and Ibo Van de Poel. (2009). Problematizing the notion of social context of technology. In *Engineering in context*. S. Hylgaard Christensen, B. Delahousse and M. Meganck. Aarhus, Academia: 61-74
44. Van Gorp, A. and I. Van de Poel (2008). Deciding on Ethical Issues in Engineering Design Processes.

- Philosophy and Design: From Engineering to Architecture*. P. E. Vermaas, P. Kroes, A. Light and S. A. Moore. Dordrecht, Springer: 77-90.
45. Van de Poel, I. (2007). De vermeende neutraliteit van techniek. De professionele idealen van ingenieurs. *Idealen van professionals*. J. Kole and D. de Ruyter: 11-23.
 46. Van de Poel, I. (2007). Ethics in engineering practice. *Philosophy in engineering*. S. Hylgaard Christensen, M. Meganck and B. Delahousse. Aarhus, Academica: 245-262.
 47. Van de Poel, I. R., S.D. Zwart, M. Brumsen & H.G.J. van Mil (2005). Risks of aerobic granular sludge technology; ethical and methodological aspects. *Aerobic granular sludge*. S. Bathe, M.K. de Kreuk, B.S. Mc Swain and N. Schwarzenbeck. London: IWA Publishing: 143-54.
 48. Hale, A.R., L.H.J. Goossens and I. van de Poel (2002). Oil & Gas Industry Regulation: From Detailed Technical Inspection to Assessment of Management Systems. *Changing Regulations: Controlling Risks in Society*. B. Kirwan, A. R. Hale & A. Hopkins. Oxford, Pergamon Press: 79-107.
 49. Van de Poel, I. (2002). Ervaringen met ethiekonderwijs en werkvormen. *Aan Babels Stroom. Een Bevrijdend Perspectief op Ethiek en Techniek*. K. Boersma, J. v. d. Stoep, M. Verkerk en A. Vlot. Amsterdam, Buijten & Schipperheijn: 26-35.
 50. Van de Poel, I.R. (1999). De analogie tussen ethische problemen en ontwerpproblemen. *Het eigene en het andere: filosofie en globalisering*. J. Baars en R. Starmans. Delft, Eburon: 243-259.
 51. Van de Poel, I.R. (1998). Why Are Chickens Housed in Battery Cages? *Getting New Technologies Together. Studies in Making Sociotechnical Order*. C. Disco and B. van der Meulen. Berlin, Walter de Gruyter: 143-178.

Reprints

52. Zandvoort, H., I.R. van de Poel & M. Brumsen (2000). Editorial: Ethics in the Engineering Curricula: Topics, Trends and Challenges. *European Journal of Engineering Education* **25**(4): 291-302. Reprinted in Davis, Michael (ed.) 2005. *Engineering Ethics*, Ashgate: 633-645

Editor of special sections and issues

53. Van de Poel, I. and P. Kroes (2007). Special issue Technology and normativity. *Techne* **10**(1).
54. Van de Poel, I. and P.P. Verbeek (2006). Special issue Ethics and Engineering Design. *Science, Technology & Human Values*, **31**(3).
55. Van de Poel, I. and M. Franssen (2002). Special issue Understanding Technological Development: The Concept of Technological Regime. *International Journal of Technology, Policy and Management*, **2**(4).
56. Brumsen, M. and I van de Poel (2001). Special section Research in Engineering Ethics. *Science and Engineering Ethics*, **7**(3).
57. Zandvoort, H., I. Van de Poel, M. Brumsen (2000). Special section Ethics in the Engineering Curricula. *European Journal of Engineering Education*, **25**(4).

Conference proceedings

58. Lloyd, P., W. van der Hoog and I. van de Poel (2005). Ethical aspects of the product design process. A protocol study. *Studying Designers '05*. J.S. Gero & N. Bonnardel. University of Sydney, Australia, Key Centre of Design Computing and Cognition: 57-70.
59. Lloyd, P. & I. Van de Poel (2005). Designing games to teach ethics. *Crossing Design Boundaries*. P. Togers, L. Brodhurst and D. Hepburn. Taylor & Francis: London: 509-513.
60. Ottens, M.M., M. Franssen, P.A. Kroes & I.R. van de Poel (2004), Modeling engineering systems as socio-technical systems *IEEE SMC'2004. Conference Proceedings of 2004 IEEE International Conference on Systems, Man & Cybernetics*. W. Thissen, P. Wieringa, M. Pantic and M. Ludema. The Hague, The Netherlands, 10-13 October 2004: 5685-5690.
61. Devon, R. and I. Van de Poel (2003). Design Ethics. The Social Ethics Paradigm. C.L. Dym *Designing Engineering Education. Proceedings of the Mudd Design Workshop IV*, Harvey Mudd College, Center for Design Education.
62. Van de Poel, I.R. (2000). Ethics and Engineering Design. *University as a Bridge from Technology to Society. Proceedings of the IEEE International Symposium on Technology and Society*. M. Iandolo. Rome, IEEE: 187-192.
63. Van de Poel, I.R., M. Brumsen, P.A. Kroes, J.O. Kroesen and H. Zandvoort (1999), Teaching Ethics and Engineering at Delft University of Technology. *Ethics in Engineering: Post Conference Papers*. R.E. Sliwa and J. Panicz. Rzeszow (Poland), Working Group on Ethics, European Society for Engineering Education: 35-50.
64. H. Zandvoort, M. Brumsen, P.A. Kroes, J.O. Kroesen and I.R. van de Poel (1999). Introducing Ethics in the Engineering Curricula: The Case of Delft University of Technology. *Engineering Education: Rediscovering the Centre. Proceedings SEFI Annual Conference 1999*. Wintherthur and Zurich, Hochschulverlag AG: 333-338.
65. Van de Poel, I.R. (1998). Technological Regimes and the Steering of Technological Development. *Steering and Effectiveness in a Developing Knowledge Society: Proceedings from a workshop at the University of Twente*. A. Rip. Utrecht, Lemma: 81-90.
66. Van de Poel, I. and C. Disco (1996). Influencing Technology: Design Worlds and their Legitimacy. *The Role of Design in the Shaping of Technology: Proceedings from the COST A3 and COST A4*

Workshop. J. Perrin and D. Vinck. Luxembourg, Office for Official Publications of the European Communities: 93-130.

67. Jelsma, J. and I.R. van de Poel (1992). Design of Technology Assessment for Early Warning: The SESR Project at the University of Twente. *Technology and Democracy: The Use and Impact of Technology Assessment in Europe, the 3rd European Congress on Technology Assessment, Copenhagen, 4-7 November 1992*. J. Ravn. Copenhagen, Danish Board of Technology: 349-364.

Professional publications

68. Van de Poel, I. R. (2006). Kan Quality Function Deployment (QFD) bijdragen aan meer verantwoorde productontwikkeling? *Filosofie* **16**(4): 40-44.
69. Van Mil, Harald, Ibo van de Poel, en Sjoerd Zwart (2006). Ethiek in de afvalwaterzuivering. *H₂O* **39**(4): 22-24.
70. Van de Poel, I.R. en L.M.M. Royakkers (2004). De ethische cyclus voor morele problemen. *Filosofie*, **14**(5), 35-39.
71. Van de Poel, I. (2003). Technologisch Determinisme. Sta-in-De-Weg Voor Een Maatschappelijk Debat. *i&i* **21**(4): 32-38.
72. Van de Poel, I. en S. Roeser (2002). Ethiek en techniek: een veelbelovend nieuw onderzoeksgebied. *Filosofie* **12**(4): 38-41.
73. Van de Poel, I.R. (2002). Techniek en democratie. Boekbespreking van R. von Schomburg (Ed.) 'Democratising Technology'. *Filosofie* **12**(3): 53-54.
74. Van de Poel, I. (2001). Ethics, Technology Assessment and Industry. *TA-Datenbank-Nachrichten* **10**(2): 51-61.
75. Brumsen, M. en I. van de Poel (2001). Wat moet een ingenieur met ethiek? *Filosofie* **11**(5): 38-41.
76. Van de Poel, I.R. (1999). Ethiek en geodesie. Geodesie is meer dan landmeten. *Geodesia*, **41**(12): 523-525.
77. Zandvoort, H. en I.R. van de Poel (1999). Een ingenieur moet weten dat TU Delft voert verplicht bijvak 'Ethiek en techniek' in. *De Ingenieur*, **111**(17): 36-37.
78. Van de Poel, I.R. (1998). Veranderende technologie. Een studie naar de transformatie van technologische regimes. *Bedrijfskundig Vakblad*, **7**: 4-11.
79. Verheul, H. en I.R. van de Poel (1995). Koolwaterstoffen als koudemiddel: een analyse van de doorbraak. *RCC koude & luchtbehandeling*, **88**(2): 17-18.

Reports

80. Van de Poel, I. (m.m.v. Hessel Jan Knapen) (1993). *Ontwerpen van ontwerpen: De ontwikkeling en het gebruik van ontwerphulpmiddelen in de werktuigbouwkunde, electrotechniek en informatica*. Enschede, Universiteit Twente. Haalbaarheidsstudie Sociaal-Wetenschappelijke Ontwerpmethodologie, deelstudie 3.
81. Van de Poel, I., A. Rip en F. van Vught (1993). *Ontwerpen in de technische wetenschappen: Studies, ervaringen en methodologie*, Enschede, Universiteit Twente. Haalbaarheidsstudie Sociaal-Wetenschappelijke Ontwerpmethodologie, deelstudie 2.
82. Enzing, C., B.Filius, J.Jelsma, J. van Overeem, I.R. van de Poel (1992), *Biotechnologie in de landbouw: Evaluatiestudie Innovatiegericht Onderzoeksprogramma Landbouwbiologie*. STB-TNO/UT-CSWTS, rapport voor het Ministerie van LNV.
83. Daey, Ouwens, C.A., Lysen, E.H., C.J.H. Midden (m.m.v. G.H. Dinkelman, I. van de Poel, H.J. Staats), Akker, J.H.A. van den en Nieuwenhout, F.D.J. (1991); *Nationaal Onderzoeksprogramma 'Mondiale Luchtverontreiniging en Klimaatverandering': Achtergrondstudies bij programmeringsnotitie duurzame oplossingen*. Bilthoven, RIVM.
84. Van de Poel, I. (1991), *Duurzame oplossingen voor het broeikaseffect: Mogelijkheden voor onderzoek*. RIVM, Bilthoven, rapport nr. 259100001.

7. Grants and prizes

- 2009: Grant for 3TU.Ethics graduate program from Netherlands Organisation for Scientific Research (NWO), 800.000 euro. Co-applicant (with Jeroen van den Hoven, Anthonie Meijers, Philip Brey, Martin Peterson and Peter-Paul Verbeek)
- 2008: Fellowship at the Netherlands Institute for Advanced Study in the Humanities and Social Sciences (NIAS) for academic year 2009-2010. Including 25.000 euro for teaching replacement.
- 2008: Synth-ethics: ethical and regulatory challenges in synthetic biology. EU 7TH Framework Program. Grant, 530.000 euro.
- 2008: Development of 8 teaching modules in ethics and technology for engineering PhD students, Grant from Netherlands Organisation for Scientific Research (NWO). Grant, 40.000 euro.
- 2007: Moral responsibility in R&D networks, Grant from Netherlands Organisation for Scientific Research (NWO), 500.000 euro.
- 2004 Henk G. Sol Award for best paper of the School of Technology, Policy and Management TU Delft.
- 2003: SOCRATES/ERASMUS project "The Cultured Engineer." Co-applicant.

- Development of AGORA, electronic platform for teaching ethics and technology, Grant from the SURF Foundation, 300.000 euro. Co-applicant.

8. Conferences and workshops: organisation and international presentations

Organization of international workshops and conferences

- 2000: Organisation of a special session (together with Michiel Brumsen) on "Research in Engineering Ethics" at the IEEE International Symposium on Technology and Society, University as a Bridge from Technology to Society, 6-8 September 2000, Rome, Italy.
- 2002: Organisation of special session (with Anke van Gorp) on "Ethics and Engineering Design" at the Conference of the European Association for the Study of Science and Technology (EASST), 31 July - 4 August 2002, York, United Kingdom.
- 2007: Conference of the Society for Philosophy of Technology, 8-11 July, 2007 Charleston, South Carolina. Member of the Program Committee.
- 2007: Workshop Philosophy and Engineering (WPE 2007), Delft, 29-31 October 2007. Workshop co-chair.
- 2010: Forum on Philosophy, Engineering, and Technology (fPET-2010), Colorado School of Mines, Golden, CO, USA, May 9-10, 2010. Member of steering committee and program committee.
- 2010: Organisation of international workshop (with Daan Schuurbiers and Neelke Doorn) on "Responsible Innovation at the Midstream of Technological Trajectories", October 22-23, 2010.

International paper presentations and invited talks (selection)

- 1992: Paper presentation at the conference "Stability and Change in Nature. Ecological and Cultural Dimensions", 16-18 March 1992, Budapest, Hungary, on "Environment and Ethics: Environmental Concern and the Good Life". Published in pre-conference proceedings.
- 1994: Paper presentation at the conference for the Society for the Social Study of Science (4S), October 11-15, 1994, New Orleans, USA.
- 1995: Paper presentation at the COST A4 international workshop "The role of design in the shaping of technology", 2-3 February 1995, Lyon, France.
- 1996: Paper presentation at the Joint conference of the Society for the Social Study of Science (4S) and the European Association for the Study of Science and Technology (EASST), 10-13 October 1996, Bielefeld, on "Who Formulates the Design Requirements?"
- 1999: Paper presentation at a workshop of the Working Group on Ethics of the European Society for Engineering Education (SEFI), 29 April – 1 May 1999, Rzeszow, Poland.
- 1999: Paper presentation at the Critical Management Studies Conference, Technology Management Stream ("Innovation and Emancipation: The Management of Technology and the Process of Work"), 14-16 July 1999, Manchester, United Kingdom.
- 2000: Paper presentation at the IEEE International Symposium on Technology and Society, University as a Bridge from Technology to Society, 6-8 September 2000, Rome, Italy.
- 2001: Invited visit to Penn State University (USA). I have given here two invited lectures (31 May and 1 June 2001).
- 2002: Reply to S.O. Hansson "Philosophical Perspectives on Risk", paper presented at the international conference "Research in Ethics and Engineering", 25-27 April 2002, Delft, the Netherlands.
- 2003: Invited presentation at Workshop "Promoting Ethics in Operations Research", INSEAD Fontainebleau, France April 25 & 26, 2003 on "The Scientific Nature of Operations Research and the Role of Normative and Ethical Judgments."
- 2003: Paper presentation at the meeting of Society for Philosophy and Technology, July 7-9, 2003 in Park City, Utah, USA on "Can Quality Management be a Way to Enhance the Ethics of Product Design?"
- 2004: Invited visit to Japan, Kanazawa Institute of Technology (January, 2-9, 2004). Participation in a number of workshops and a conference on "Ethics across the curriculum."
- 2004: Invited presentation at the Workshop Ethics and Technology at the University of Twente, the Netherlands, January 30-31, 2004 on "Engineering ethics as professional ethics, applied ethics or still something else?"
- 2004: Presentation on Granules 2004, IWA Workshop Aerobic Granular Sludge, Technical University of Munich, 26-28 September 2004, on "Methodological and ethical issues in the upscaling of an aerobic granular sludge reactor for sewage treatment in the Netherlands". Paper written together with M. Brumsen, S.D. Zwart, S.D., and H.G.J. van Mil.
- 2004: Invited presentation at the Workshop on New Directions in Understanding Ethics and Technology, at the University of Virginia (USA), October, 29-November, 1 2004 on "Normative reflections on sociotechnical networks in the development of a new wastewater treatment reactor in the Netherlands". Paper written together with M. Brumsen, S.D. Zwart, and H.G.J. van Mil.
- 2005: Invited presentation at the First International Workshop on "The Formation of Ethics Crossroads and the Construction of Science and Engineering Ethics", The Applied Ethics Center for

Engineering and Science, Kanazawa Institute of Technology, Tokyo, Japan, March 3-4, 2005 on "The development and use of Agora, an electronic tool for teaching engineering ethics."

- 2006: Invited visit to Kanazawa Institute of Technology, Kanazawa Japan, February 2006. Various lectures on AGORA.
- 2006: Invited participation in the philosophy of engineering seminar organized by the Royal Academy of Engineering (UK), March 2006
- 2006: Paper presentation "How are we to do nanoethics?" at a workshop on nanoethics in Padua, Italy, May 2006.
- 2006: Invited participation in the workshop Philosophy and Engineering at MIT, October 2006
- 2006: Invited paper presentation, "How can nanoethics be done?" At a workshop on nanotechnology and ethics, Linköping, Sweden, December 2006.
- 2007: Paper presentation "Values in engineering design" at the workshop Philosophy of the Engineering Sciences, Eindhoven, the Netherlands, January 2007.
- 2007: Paper presentation "The normativity of technology" at the Workshop moral agency of artifacts, NIAS, Wassenaar, the Netherlands, 10-12 May 2007.
- 2008: Invited participation in the International Conference Managing the uncertainty of nanotechnologies. Challenges to law, ethics and policy making (Rovigo, Italy, May 22-23, 2008). Member of the closing panel.
- 2009: Paper presentation "The relation between forward-looking and backward-looking responsibility" at the International Conference on Moral Responsibility: neuroscience, organization & engineering, Delft, August 24-27, 2009.
- 2010: Paper presentation "Ethics of modeling in engineering design" at the Workshop on Ethical Modeling (Etham), TU Delft, The Netherlands, January 11-12, 2010.
- 2010: Invited participation in: Workshop "Engineering in Developing Contexts", Colorado School of Mines, Golden, CO, USA, May 6-8, 2010.

9. Other academic activities

I am member of the editorial board of the journal *Accountability in Research*

I am associate editor of the Springer book series on *Philosophy of Engineering and Technology*

I have acted as referee for the following journals:

- Science, Technology & Human Values
- Science and Engineering Ethics
- Techne
- Ethics and Information Technology
- Technology Analysis and Strategic Management
- International Journal of Engineering Education
- Journal of Business Ethics
- Journal of Environmental Policy & Planning
- Research in Engineering Design
- Nanoethics
- Design Studies
- International Journal of Sustainable Society
- Oxford Bibliographies Online
- Impact Assessment and Project Appraisal
- Accountability in Research