

PERSONAL INFORMATION

Name: Prof.dr. J.W. (Johan) Schot

Researcher unique identifier: ORCID number: orcid.org/0000-0002-1943-1228

Date and place of birth: February 4, 1961. Ridderkerk

Nationality: Dutch

Website: www.johanschot.com

Telephone: +44 (0)7720339191 (mobile) +44 (0)1273 873849 (work)

Email: +44 (0)7720339191 (mobile) +44 (0)1273 873849 (work)

EDUCATION

MA: Social History, Erasmus University, Rotterdam, The Netherlands, Spring 1985 (cum laude)

MA: History and Policy, Erasmus University, Rotterdam, The Netherlands, Spring 1985 (cum laude)

Ph.D. University of Twente, Enschede, The Netherlands, December 20, 1991

Supervisor: Prof. dr. A. Rip

Dissertation topic: Social Control of Technical Change

EMPLOYMENT

Jan 2019 – today Professor of Comparative Global History, Utrecht Centre for Global Challenges (UGLOBE), University of Utrecht, Netherlands.

2014–Dec 2018 Director of SPRU (Science Policy Research Unit), Professor of History of Technology and Sustainability Transitions, University of Sussex

1999–2014 Professor History of Technology/Transitions Studies at Eindhoven, University of Technology

1999–2003 Professor Social History of Technology at the University of Twente

1991–1999 Associate Professor & Assistant Professor at the University of Twente

1985–1991 Junior/Senior Consultant TNO Centre for Technology and Policy Studies

FELLOWSHIPS, AWARDS AND HONOURS (SELECTION)

Jan 2014 – today Director of SPRU (Science Policy Research Unit), University of Sussex & Professor History of Technology and Sustainability Transitions (1.0 fte tenured)

1999 – Jan 2014 Professor History of Technology/Transitions Studies at Eindhoven University of Technology (0,6 fte tenured; since September 2003 1,0 fte tenured)

1999 – 2003 Professor Social History of Technology at the University of Twente. (0,4 fte tenured)

1998 – 1999 Associate Professor Social Studies of Science and Technology at the University of Twente. (1,0 fte tenured)

1991 – 1997 Assistant Professor Social Studies of Science and Technology at the University of Twente. (1,0 fte tenured)

1985 – 1991 Junior and later Senior Consultant at the TNO Centre for Technology and Policy Studies

AWARDS AND HONOURS

2017 Honorary Degree from New University Lisbon, Portugal

2015 Leonardo da Vinci Award of the Society for the History of Technology (highest recognition)

2014 Chris Freeman Award of the European Association for the Study of Science and Technology for the Making Europe book series, including book *Writing the Rules for Europe*

2010 – 2011 Fellowship (and theme-coordinator) at the Netherlands Institute for Advanced Studies in the Humanities and Social Sciences (NIAS)

2009 Elected to the Royal Netherlands Academy of Arts and Sciences.

2007 – 2008 Fernand Braudel Fellowship, European University Institute Florence, History and Civilisation Department (12 months)

2005 – 2007 Elected to Honours Teaching Staff of the Eindhoven University of Technology.

2002 VICI Award. National competition for talented scientists highest category, Netherlands Organization for Scientific Research (€1.25 million).

1993 Senior Research Edelstein Fellowship of the Sidney Edelstein Foundation, The Hebrew University of Jerusalem

1987 Prof.dr.ir. R.J. Forbes Prize for young scholars in the history of technology

FOUNDER

I am co-founder of the Greening of Industry Network (1989), of the Dutch Knowledge Network on Systems Innovation and Transitions to Sustainable Development (2002), the Tensions of Europe Network (1999) and of the Transformative Innovation Policy Consortium (2016).

GRANTS (SELECTION)

2018	Transformative Innovation Policy Consortium, co-funded by Norwegian Research Council, Swedish Governmental Agency for Innovation-VINNOVA, Finnish Funding Agency for Innovation-Tekes, Colombian Administrative Department of Science, Technology and Innovation-Colciencias, South African National Research Fund, Conacyt, Mexico (5 years, annual contribution by each member £60.000, total £2,1 million)
2017	Contested Directions of Deep Transitions by Baillie Gifford (donation £1,5million)
2016	Transformative Innovation Policy Consortium, co-funded by Norwegian Research Council, Swedish Governmental Agency for Innovation-VINNOVA, Finnish Funding Agency for Innovation-Tekes, Colombian Administrative Department of Science, Technology and Innovation-Colciencias, South African National Research Fund (£360.000 for first year pilot).
2015/2016	Transformative Innovation Policy and Evaluation Technical Agreement for research, training and mentoring, Colombian Administrative Department of Science, Technology and Innovation-Colciencias (£300.000)
2015	Co-Applicant, Norwegian Research Council Grant, Responsible Innovation and Happeness, A New Approach to the Effects of ICTs (SPRU part, £149.703)
2013	Co-Applicant EU 7th Framework Project Sustainable Life Style 2.0. End-User Integration, Innovation and Entrepreneurship (TU/e part €286.100)
2011	Grant Netherlands Organization for Scientific Research for program on <i>Historical Roots of Dutch Sustainability Challenge</i> (€750.000)
2009	Netherlands Institute for Advanced Studies (NIAS), Proposal accepted for the establishment of a theme group on Technology and European History
2005	Coordinating Proposer of awarded proposal <i>Inventing Europe: Technology and the Making of Europe, 1850 to the Present</i> by the European Science Foundation EUROCORES Collaborative Research Scheme (€4 million).
2004	Grant for program <i>Knowledge Network for Systems Innovation and Transitions towards Sustainable Development</i> (€20 million)
2002	NWO VICI Grant Transnational Infrastructures and the Rise of Contemporary Europe (€1,4 million)
2000	A European Science Foundation (ESF) Network grant (€93,000).
1998	A Netherlands Council for Scientific Research (NWO), Large Program Grant for <i>Technology and the Making of the Netherlands</i> (€1.5 million).
1997	A Netherlands Council for Scientific Research (NWO), Program Grant for <i>New Consumers and New Products. The Emergence of a New Consumer Society</i> (€400,000).
1996	A European Union Targeted Socio-economic Research Grant for a program on <i>Strategic Niche Management as a Tool towards a Sustainable Transportation</i> (€500,000).

MAJOR MANAGEMENT ROLES

2014 – today	Director of SPRU (Science Policy Research Unit), University of Sussex
2009 – 2013	Head of Technology, Innovation & Society Group, School of Innovation Sciences, Eindhoven University of Technology (50 people). Its research was graded as world leading in the 2009 research assessment.
2009 – 2011	Program Director Master Innovation Sciences, Eindhoven University of Technology.
2007 – 2009	Research Director of the Eindhoven Centre for Innovation Studies (100 people).
1998 – 2015	Research Director of the Foundation for the History of Technology. In this position I have been responsible for acquiring funding from a wide range of companies including Philips, Unilever, DSM, CampinaFriesland, TNO, SNS Reaal, AKZO-Nobel, Shell and other smaller companies.
2004 – 2010	Research Director of the Foundation for System Innovations and Transitions towards Sustainable Development (KSI) (80-100 researchers);
2005 – 2009	Director of the KSI Graduate Program (40 PhD Students).
1996 – 2002	Research Director of the National Research program Technology in the Netherlands in the Twentieth Century (TIN-20) (70-80 researchers).

PROFESSIONAL DUTIES (SELECTION)

2017	Commission Chair Research Assessment Faculty of Arts and Social Sciences, Maastricht University
2016 – 2018	Member of the Executive Committee of the European Forum for the Studies of Policies for Research and Innovation (EU-SPRI)
2016 – 2017	Member of the Scientific Council on the International Panel on Social Progress
2015 – 2016	Member of the Development Group to establish the UK Association for the Study of Innovation, Science and Technology
2014 – today	Chairman of the Scientific Committee of the Netherlands Institute for Advanced Studies (NIAS)
2010 – 2011	Coordinator Theme Group <i>Inventing Europe</i> Netherlands Institute for Advanced Studies in the Humanities and Social Sciences.
2011 – 2014	Initiator and Program Director of the Digital European Science and Technology History Museum (under development). This includes a collaboration with ten Culturage Heritage Institutions and Museums, including the Science Museum in London and the Deutsches Museum in Munich. A first demo is available at www.inventingeurope.eu
2010 – today	Editor of Palgrave/MacMillan Book Series <i>Making Europe. Technology and Transformations 1850-2000</i> .
2010 – 2016	Member of Editorial Board of <i>Transfers Interdisciplinary Journal of Mobility Studies</i> .
2010 – today	Member of Editorial Board of <i>Societal Transition and Environmental Innovation</i> .
2009 – today	Editor of <i>Routledge Studies in Sustainability Transitions</i> .
2008 – today	Editor of Amsterdam University Press Book Series <i>Technology and European History</i> .
2007 – 2010	Chair of the Scientific Committee of the European Science Foundation EUROCORES Research Program <i>Inventing Europe</i> .
2007 – 2012	Founder of the Graduate Program the Hidden Integration in Central, Eastern and South-Eastern Europe with Charles University in Prague, Czech Republic and University of Plovdiv in Bulgaria.
2004	Main Organizer of the 2004 Annual Conference of the Society for the History of Technology in Amsterdam.
2000 – today	Member of the Editorial Board of <i>Technology Analysis & Strategic Management</i> .
2001 – 2003	Chairman of the European Science Foundation Network <i>Tensions of Europe. Technology and the Making of 20th Century Europe</i> .
2000 – 2003	(Elected) Member of the Executive Council of the Society for the History of Technology.
1998 – 2003	Main Editor of the seven volume series <i>Technology in the Netherlands in the Twentieth Century</i> (published 1998-2003). Entire series is selected for inclusion in the National Digital Library for Dutch Cultural History; Final volume is translated in English and published by MIT Press.
1997 – 2007	Research Director of the Subprogram Globalisation, Technical Change and Economic Development, of the N.W. Posthumus Institute for Social and Economic History.
1989 – 1995	Editor of the six volume series <i>Geschiedenis van de Techniek in Nederland. De Wordings van een Moderne Samenleving, 1800-1890</i> (published 1992-1995).

CURRICULUM DEVELOPMENT AND COURSE AREAS TAUGHT (AT UNIVERSITY OF TWENTE AND EINDHOVEN UNIVERSITY OF TECHNOLOGY) UNDERGRADUATE AND GRADUATE LEVEL

I was responsible for the development of a Master program on Innovation Sciences, a Bachelor program on Sustainable Innovation, and helped co-design a New Bachelor College program for the entire university (all at Eindhoven University of Technology)

- Evolutionary Foundations of Technical Change
- Technology Policy & Technology Assessment
- History of Technology
- Technology and European Integration
- Modern Societies in Transition, 1800-2000
- Theory of History and Social Science
- Research Methods
- Sustainable Development

PHD STUDENTS

Promoter of Prof. Rosalind Williams (MIT) awarded an Honorary degree in History of Technology at Eindhoven University of Technology

PHD SUPERVISION

Hoogma, Remco, 'Exploiting Technological Niches. Strategies for Experimental Introduction of Electric Vehicles', graduated May, 2000, University of Twente.

Geels, Frank, 'Understanding the Dynamics of Technological Transitions: A Co-evolutionary and Socio-technical Analysis', graduated November, 2002, University of Twente.

Staal, Peter-Eloy, 'Automobilisme in Nederland: een geschiedenis van gebruik, misbruik en nut' (The car in Dutch society), graduated April, 2003, Eindhoven University of Technology.

Rooij, Arjan van, 'Building Plants: Markets for Technology and Internal Capabilities in DSM's Fertiliser Business; 1925-1970', graduated May, 2004, Eindhoven University of Technology.

Raven, Rob, 'Strategic Niche Management for Biomass', graduated June, 2005, Eindhoven University of Technology.

Buiter, Hans, 'Techniek op straat. De wisselwerking tussen de technologie en de architectuur en het gebruik van de openbare ruimte in vier Nederlandse steden - 1860-1980' (Technology on the street. A history of the use of public space in four Dutch cities), graduated October, 2005, Eindhoven University of Technology.

Schueler, Judith, 'Materialising Identity. The Co-construction of the Gotthard railway and Swiss National Identity', graduated May, 2008, Eindhoven University of Technology.

Lagendijk, Vincent, 'Electrifying Europe. The power of Europe in the Development of Electricity Networks', graduated September, 2008, Eindhoven University of Technology.

Schipper, Frank, 'Driving Europe. Building Europe on Roads in the Twentieth Century', graduated September, 2008, Eindhoven University of Technology.

Anastasiadou, Irene, 'In Search of a Railway Europe. Transnational Railway Developments in Interwar Europe', graduated January, 2009, Eindhoven University of Technology.

Verhees, Bram, 'Cultural Legitimacy and Innovation Journeys. A New Perspective Applied to British and Dutch Nuclear Power History', graduated February 2012 Eindhoven University of Technology.

Lommers, Suzanne, 'Europe on Airwaves. Interwar projects for Radio Broadcasting', graduated May 23 2012, Eindhoven University of Technology.

Jíri Janá , 'European Coast of the Bohemia. Negotiating the Danube-Oder-Elbe Canal in a Troubled Twentieth Century', graduated December 2012, Eindhoven University of Technology.

Ivailo Hristov, 'The Communist Nuclear Era. Bulgarian Atomic Community during the Cold War, 1944-1986, graduated 2014, Eindhoven University of Technology

Markus Popkema, 'Tussen Techniek en Planning', graduated 2014, Eindhoven University of Technology.

Jonas Torrens, 'Understanding the Development of Urban Transformative Capacity in Bristol and Medellin' (working title), SPRU, University of Sussex, expected in 2018

Bipashyee Gosh, 'Towards an Alternative Urban Mobility Transition in an Indian Megacity' (working title) SPRU, University of Sussex, expected in 2018

Keija Yang, 'Actor interactions and Transformation: Development of Solar and Wind Power in China post 2000' (working title), SPRU, University of Sussex, expected in 2019

LIST OF REFEREED ARTICLES, BOOKS AND BOOK CHAPTERS

SELECTION OF (RECENT) KEY PUBLICATIONS

Johan Schot and W. Edward Steinmueller, 'Framing Innovation Policy for Transformative Change' *Research Policy*, forthcoming

Johan Schot and Laur Kanger, 'Deep Transitions, Emergence, Acceleration, Stabilisation and Directionality', *Research Policy*, (2018), 47, 1045-1059.

Johan Schot, Laur Kanger, and Geert Verbong, 'The role of users in shaping transitions to new energy systems'. *Nature Energy*, 1, 2016, 16054

Wolfram Kaiser and Johan Schot, *Writing the Rules for Europe: Experts, Cartels and International Organisations*, (Palgrave/MacMillan, 2014).

Kiran Klaus Patel and Johan Schot, 'Twisted Paths to European Integration: Comparing Agriculture and Transport Policies in a Transnational Perspective', *Contemporary European History* (2011), 20 (4), 383-403.

John Grin, Jan Rotmans and Johan Schot, *Transitions Towards Sustainable Development. New Directions in the Study of Long Term Transformative Change* (New York/London: Routledge 2010).

Johan Schot, Harry Lintsen and Arie Rip (eds.), *Technology and the Making of the Netherlands: The Age of Contested Modernization*, (Cambridge Mass: MIT Press 2010).

Frank Geels and Johan Schot, 'Typology of Sociotechnical Transition Pathways', *Research Policy* (2007), 36 (3), 399-417.

FULL LIST OF PUBLICATIONS (WITHOUT WORKING PAPERS, BLOGS, CONFERENCE PAPERS, AND KEYNOTES)

REFEREED ARTICLES

Bipashyee Gosh and Johan Schot, 'Mapping socio-technical public transportation regime change in Kolkata', submitted to *Energy Research and Social Science*

Laur Kanger, Frank Geels, Benjamin Sovacool, Johan Schot, Societal embedding, user-based innovation, and directionality: Lessons from automobile diffusion in the Netherlands and United States for future transitions, submitted to *Transportation Research Part D: Transport and Environment*

Jonas Torrens, Johan Schot, Rob Raven, Philip Johnstone, 'Seedbeds, harbours and battlegrounds: on the origins of favourable environments for urban experimentation with sustainability', submitted to *Environmental Innovation and Societal Transition*

Elsie Onsongo and Johan Schot, 'Inclusive Innovation and multi-regime dynamics; the case of mobile phone in Kenya', submitted to *Research Policy*

Laur Kanger and Johan Schot, 'Deep Transitions: theorizing the long term patterns of socio-technical change, accepted to *Environmental Innovation and Societal Transitions*

Johan Schot and W. Edward Steinmueller, 'New Directions for Innovation Studies: Missions and Transformations', Final response to commentators, *Research Policy*, forthcoming

Johan Schot and W. Edward Steinmueller, 'Framing Innovation Policy for Transformative Change' *Research Policy*, forthcoming

Jonas Torrens, Philip Johnstone, Johan Schot, 'Unpacking the formation of favourable environments for urban experimentation: the case of the Bristol energy scene', *Sustainability*, 2018, 10 (3). ISSN 2071-1050

Johan Schot and Laur Kanger, 'Deep Transitions, Emergence, Acceleration, Stabilisation and Directionality', *Research Policy*, 47, 1045-1059.

Laur Kanger, and Johan Schot, 2016. 'User-made immobilities: a transitions perspective'. *Mobilities* 11, 598-613

Johan Schot, Laur Kanger, and Geert Verbong, 'The role of users in shaping transitions to new energy systems'. *Nature Energy*, 1, 2016, 16054

- Johan Schot, 'Confronting the Second Deep Transition through the Historical Imagination' *Technology and Culture* 57, 445-456 (publication of keynote address)
- Rob Raven, Johan Schot, Frans Berkhout, 2012. 'Space and scale in socio-technical transitions', *Environmental Innovation and Societal Transitions* (2012), 4, 63-78
- Johan Schot, 'The Mystery of the Failed European Common Transport Policy Explained', *Transfers*, (2012), 2, (2), 144-149.
- John Grin, Jan Rotmans, Johan Schot, 'On Patterns and Agency in Transition Dynamics: Some Key Insights from the KSI Programme', *Environmental Innovation and Societal Transitions* (2011), 1 (1), 76-81.
- Frank Schipper and Johan Schot, 'Infrastructural Europeanism, or the project of building Europe on infrastructures: an introduction', *History and Technology* (2011), 27 (3), 245-264.
- Johan Schot and Frank Schipper, 'Experts and European Transport Integration 1945-1958', *Journal of European Public Policy* (2011), 18 (2), 274-293.
- Johan Schot, Hans Buijter and Irene Anastasiadou, 'The dynamics of transnational railway governance in Europe during the long nineteenth century', *History and Technology* (2011), 27 (3), 265-289.
- Kiran Klaus Patel and Johan Schot, 'Twisted Paths to European Integration: Comparing Agriculture and Transport Policies in a Transnational Perspective', *Contemporary European History* (2011), 20 (4), 383-403.
- Johan Schot and Vincent Lagendijk, 'Technocratic Internationalism in the Interwar Years: Building Europe on Motorways and Electricity Networks', *Journal of Modern European History* (2008), 6 (2), 196-216.
- Johan Schot and Frank Geels, 'Strategic Niche Management and Sustainable Innovation Journeys: Theory, Findings, Research agenda, and Policy', *Technology Analysis & Strategic Management* (2008), 20 (5), 537-554.
- Johan Schot and Jan-Pieter Smits, 'Globalisering en geschiedenis. Nieuwe onderzoeksperspectieven', *Tijdschrift voor Sociale en Economische Geschiedenis* (2007), 4 (3), 3-14.
- Johan Schot, 'Globalisering en infrastructuur', *Tijdschrift voor Sociale en Economische Geschiedenis* (2007), 4 (3), 107-128.
- Johan Schot and Frank Geels, 'Niches in Evolutionary Theories of Technical Change', *Journal of Evolutionary Economics* (2007), 17 (5), 605-622.
- Johan Schot and Frank Geels, 'Typology of Sociotechnical Transition Pathways', *Research Policy* (2007), 36 (3), 399-417.
- Th.J. Misa and J.W. Schot, 'Inventing Europe: Technology and the Hidden Integration of Europe', *History and Technology* (2005), 21 (1), 1-20.
- Hugo van Driel and Johan Schot, 'Radical Innovation as a Multilevel Process: Introducing Floating Grain Elevators in the Port of Rotterdam', *Technology and Culture* (2005), 46 (1), 51-77.
- Gijs Mom, Peter Staal and Johan Schot, 'De beschaving van het gemotoriseerde avontuur. ANWB en KNAC als wegbereiders bij de inburgering van de auto in Nederland', *Tijdschrift voor Sociale Geschiedenis* (2002), 28 (3), 323-346.
- O. de Wit, J. van den Ende, J. Schot and E. van Oost, 'Innovation Junctions: Office Technologies in the Netherlands, 1880-1980', *Technology and Culture* (2002), 43 (1), 50-72.
- Hugo van Driel and Johan Schot, 'Regime-transformatie in de Rotterdamse graanoverslag', *NEHA Jaarboek voor economische, bedrijfs- en techniekgeschiedenis* (Amsterdam: NEHA 2001), 64, 286-318.
- Johan Schot, 'Einleitung Kontextualistische Technikgeschichte in den Niederlanden', *Technikgeschichte* (2001), 68 (2), 93-106.
- Johan Schot, 'Towards New Forms of Participatory Technology Development', *Technology Analysis & Strategic Management* (2001), 13 (1), 39-52.
- René Kemp, Johan Schot and Remco Hoogma, 'Regime Shifts to Sustainability Through Processes of Niche Formation. The Approach of Strategic Niche Management', *Technology Analysis & Strategic Management* (1998), 10 (2), 175-195.
- Johan Schot, 'The Usefulness of Evolutionary Models for Explaining Innovation. The Case of the Netherlands in the Nineteenth Century', *History and Technology* (1998), 14, 173-200.

Johan Schot, Wybren Versteegen, Ernst Homburg, Harry Lintsen and Arie Rip, 'Naar een Techniekhistorisch overzichtswerk voor de Twintigste Eeuw. Een contextualistische geschiedenis van de techniek voor Nederland internationaal vergeleken', *NEHA Jaarboek voor economische, bedrijfs- en techniekgeschiedenis* (Amsterdam: NEHA 1997), 60, 339-377.

Johan Schot, Ellis Brand and Kurt Fischer, 'The Greening of Industry for a Sustainable Future; The Building of an International Research Agenda', *Business Strategy and the Environment*, (1997), 6, 1-10.

Johan Schot and Arie Rip, 'The Past and Future of Constructive Technology Assessment', *Technological Forecasting and Social Change*, (1997), 54 (2-3), 251-268.

René Kemp and Johan Schot, 'De toekomst voorspeld voor de toepassing van milieugerichte technieken', *Milieu* (1996), 11 (5), 1996, 223-232.

Johan Schot, 'De inzet van constructief technology assessment', *Kennis en Methode* (1996), 20 (3), 265-293.

H. Lintsen, E. Homburg, J.W. Schot, G.P.J. Verbong, D. van Lente and M. Bakker, 'Tussen droom en daad...', *NEHA Jaarboek voor economische, bedrijfs- en techniekgeschiedenis* (Amsterdam: NEHA 1995), 58, 89-113. Also published in: *Gewina: Tijdschrift voor de Geschiedenis van de Geneeskunde, Natuurwetenschappen, Wiskunde en Techniek* (1995), 18 (4), 357-380.

Johan Schot, Remco Hoogma and Boelie Elzen, 'Strategies for Shifting Technological Systems. The Case of the Automobile System', *Futures* (1994), 26, 1060-1076.

Johan Schot, 'Credibility and Markets as Greening Forces for the Chemical Industry', *Business Strategy and the Environment*, (1992), 1 (1), 35-44.

J.W. Schot, 'Constructive Technology Assessment and Technology Dynamics: The Case of Clean Technologies', *Science, Technology, & Human Values* (1992), 17 (1), 36-56. (Translated into Spanish in 1997).

J.W. Schot, 'Regelgeving en technologische ontwikkeling: Mogelijkheden voor sturing', *Tijdschrift voor Politieke Economie* (1988) 11 (3), 79-96.

E. Homburg and J.W. Schot, 'Financiers van de Nederlandse industrialisatie. Economische drijfveren, sociale herkomst en familierelaties. Het voorbeeld van de garancine-industrie 1845-1854', *Tijdschrift voor Sociale Geschiedenis* (1988), 14 (3), 274-298.

E. Homburg and J.W. Schot, 'Innoverend ondernemerschap in het midden van de 19e eeuw; een onderzoek naar de oprichters van de Nederlandse garancine-industrie', *Jaarboek voor Geschiedenis van Bedrijf en Techniek* (1988), 5, 86-101.

J.W. Schot, 'Het meekrapbedrijf in Nederland in de negentiende eeuw nader bezien in het licht van het industrialisatiedebat', in: *Economisch- en Sociaal-Historisch Jaarboek* (1987), 50, 77-110.

J.W. Schot, 'De meekrapnijverheid: de ontwikkeling van de techniek als een proces van variatie en selectie', *Jaarboek voor de Geschiedenis van Bedrijf en Techniek* (1986), 3, 43-62.

MONOGRAPHS

Johan Schot, and Wolfram Kaiser, 2014. *Writing the Rules for Europe. Experts, Cartels and International Organizations, Making Europe. Technologies and Transformations, 1850-2000* boek Series. London: Palgrave Macmillan.

John Grin, Jan Rotmans and Johan Schot, *Transitions Towards Sustainable Development. New Directions in the Study of Long Term Transformative Change* (New York/London: Routledge 2010).

R. Hoogma, R. Kemp, J. Schot and B. Truffer, *Experimenting for Sustainable Transport. The Approach of Strategic Niche Management* (London: Spon Press 2002).

Hans Dieleman, René van Berkel, Femke Reijenga, Sybren de Hoo, Han Brezet, Jacqueline Cramer and Johan Schot, *Kiezen voor Preventie is Winnen. Naar een preventief milieubeleid van bedrijf en overheid*. (The Hague: SDU Uitgeverij 1991).

Johan Schot, *Maatschappelijke Sturing van Technische Ontwikkeling. Constructief Technology Assessment als Hedendaags Luddisme*, Ph.D. thesis published in the WMW publication series, Faculteit Wijsbegeerte en Maatschappijwetenschappen, University of Twente (1991), 9.

EDITED VOLUMES

Johan Schot, Harry Lintsen and Arie Rip (eds.), *Technology and the Making of the Netherlands: The Age of Contested Modernization*, (Cambridge Mass: MIT Press 2010).

J.W. Schot, H.W. Lintsen, A. Rip, A. Albert de la Bruhèze et al. (eds.), *Techniek in Nederland in de Twintigste Eeuw. Volume VII: Techniek en Modernisering. Balans van de Twintigste Eeuw* (Zutphen: Walburg Pers 2003).

J.W. Schot, H.W. Lintsen, A. Rip, A. Albert de la Bruhèze et al. (eds.), *Techniek in Nederland in de Twintigste Eeuw. Volume VI: Stad, Bouw, Industriële productie* (Zutphen: Walburg Pers 2003).

J.W. Schot, H.W. Lintsen, A. Rip, A. Albert de la Bruhèze et al. (eds.), *Techniek in Nederland in de Twintigste Eeuw. Volume V: Transport, Communicatie* (Zutphen: Walburg Pers 2002).

J.W. Schot, H.W. Lintsen, A. Rip, A. Albert de la Bruhèze et al. (eds.), *Techniek in Nederland in de Twintigste Eeuw. Volume IV: Huishoudtechnologie, Medische Techniek* (Zutphen: Walburg Pers 2001).

J.W. Schot, H.W. Lintsen, A. Rip, A. Albert de la Bruhèze et al. (eds.), *Techniek in Nederland in de Twintigste Eeuw. Volume III: Landbouw, Voeding* (Zutphen: Walburg Pers 2000).

J.W. Schot, H.W. Lintsen, A. Rip, A. Albert de la Bruhèze et al. (eds.), *Techniek in Nederland in de Twintigste Eeuw. Volume II: Delfstoffen, Energie, Chemie* (Zutphen: Walburg Pers 2000).

J.W. Schot, H.W. Lintsen, A. Rip, A. Albert de la Bruhèze et al. (eds.), *Techniek in Nederland in de Twintigste Eeuw. Volume I: Techniek in ontwikkeling, Waterstaat, Kantoor en informatietechnologie* (Zutphen: Walburg Pers 1998).

Peter Groenewegen, Kurt Fischer, Edith G. Jenkins and Johan Schot (eds.), *The Greening of Industry Resource Guide and Bibliography* (Washington D.C: Island Press 1996).

Arie Rip, Tom Misa and Johan Schot (eds.), *Managing Technology in Society. The Approach of Constructive Technology Assessment* (London: Pinter Publisher 1995).

H.W. Lintsen, M.S.C. Bakker, E. Homburg, D. van Lente, J.W. Schot and G.P.J. Verbong (eds.), *Geschiedenis van de Techniek in Nederland. De wording van een moderne samenleving 1800-1890. Volume VI: Techniek en samenleving* (Zutphen: Walburg Pers 1995).

H.W. Lintsen, M.S.C. Bakker, E. Homburg, D. van Lente, J.W. Schot en G.P.J. Verbong (eds.), *Geschiedenis van de Techniek in Nederland. De wording van een moderne samenleving 1800-1890. Volume V: Techniek, beroep en praktijk* (Zutphen: Walburg Pers 1994).

H.W. Lintsen, M.S.C. Bakker, E. Homburg, D. van Lente, J.W. Schot and G.P.J. Verbong (eds.), *Geschiedenis van de Techniek in Nederland. De wording van een moderne samenleving 1800-1890. Volume IV: Delfstoffen, machine- en scheepsbouw, Stoom, Chemie, Telegrafie en telefonie* (Zutphen: Walburg Pers 1994).

H.W. Lintsen, M.S.C. Bakker, E. Homburg, D. van Lente, J.W. Schot and G.P.J. Verbong (eds.), *Geschiedenis van de Techniek in Nederland. De wording van een moderne samenleving 1800-1890. Volume III: Textiel, Gas, licht en elektriciteit, Bouw* (Zutphen: Walburg Pers 1993).

H.W. Lintsen, M.S.C. Bakker, E. Homburg, D. van Lente, J.W. Schot and G.P.J. Verbong (eds.), *Geschiedenis van de Techniek in Nederland. De wording van een moderne samenleving 1800-1890. Volume II: Gezondheid en openbare hygiëne, Waterstaat en infrastructuur, Papier, druk en communicatie* (Zutphen: Walburg Pers 1993).

Kurt Fischer and Johan Schot (eds.), *Environmental Strategies for Industry: International Perspectives on Research Needs and Policy Implications* (Washington: Island Press 1993). Also translated and published in 1999 into Japanese.

H.W. Lintsen, M.S.C. Bakker, E. Homburg, D. van Lente, J.W. Schot and G.P.J. Verbong (eds.), *Geschiedenis van de Techniek in Nederland. De wording van een moderne samenleving 1800-1890. Volume I: Techniek en modernisering, Landbouw en voeding* (Zutphen: Walburg Pers 1992).

BOOK CHAPTERS

- Marcel van der Linden, and Elisa Reis (coordinating lead authors), Massimo Livi Bacci, Stephen Castles, Raul Degago Wise, Naila Kabeer, K.P. Kannan, Ronaldo Munch, Adrienne Rovers, Johan Schot, Göran Therborn, Peter Wagner (lead authors), 'Social Trends and New Geographies' *International Panel on Social Progress Report*, chapter 1, forthcoming with Cambridge University Press
- Matthew Adler, Helga Nowotny (coordination lead authors), Cary Coglianese, Sheila Jasanoff, Ravi Kanbur, Brian Levy, Ole F. Nortier, Johan Schot, Christiana Spiel, Simon Schwartzman (lead authors), 'The Contributions of Social Sciences to Policy and Institutional Change', *International Panel on Social Progress Report*, chapter 22, forthcoming with Cambridge University Press
- Johan Schot and Frank W. Geels, 'Strategic niche management and sustainable innovation journeys: theory, findings, research agenda, and policy', in: Frank W. Geels et al (eds), *The Dynamics of Sustainable Innovation Journeys* (London and New York, Routledge, 2011), 17-34
- Johan Schot, 'Origins of technocratic internationalism', in: Alexander Badenoch and Andreas Fickers (eds.), 2010 *Materializing Europe. Transnational Infrastructures and the Project of Europe*. Palgrave Macmillan, 21-48.
- Johan Schot, 'Transnational Infrastructures and European Integration. A conceptual Exploration', in: Christophe Bouneau et al (eds), *Trends in Technological Innovation and the European Construction* (Bruxelles: P.I.E. Peter Lang, 2010), 97-120.
- Dick van Lente and Johan Schot, 'Technology as Politics: Engineers and the Design of Dutch Society', in: Johan Schot et al (eds.), *Technology and the Making of the Netherlands: the Age of Contested Modernization, 1890-1970* (Cambridge Mass: MIT Press 2010), 365-431.
- Johan Schot and Arie Rip, 'Inventing the power of modernization', in: Johan Schot et al (eds.), *Technology and the Making of the Netherlands: the Age of Contested Modernization, 1890-1970* (Cambridge Mass: MIT Press 2010), 13-45.
- Schot J.W. and van Lente D., 'Technology, industrialization, and the contested modernization of the Netherlands', in: Johan Schot et al (eds.), *Technology and the Making of the Netherlands: the Age of Contested Modernization, 1890-1970* (Cambridge Mass: MIT Press 2010), 485-541.
- Johan Schot, 'Transnational Infrastructures and the Origins of European Integration', in: A. Badenoch and A. Fickers (eds.), *Europe Materializing? Transnational Infrastructures and the Project of Europe* (Houndsmill: Palgrave/Macmillan 2010), 82-109.
- Johan Schot, 'Transnational Infrastructures and European Integration: A Conceptual Exploration', in: Christoph Bonneau and Antonio Vessori (eds.), *Trends in Technological Innovation and the European Construction: The Emerging of Enduring Dynamics?* (Brussel/Bern/Berlin: Springer Verlag 2010), 97-122.
- Gijs Mom, Peter Staal and Johan Schot, 'Civilizing Motorized Adventure, Touring and Automobile Clubs as Intermediaries in the Emergence of the Automobile in The Netherlands', in: Ruth Oldenziel, Adri Albert de la Bruhèze and Onno de Wit (eds.), *Manufacturing Technology/Manufacturing Consumers* (Amsterdam: Aksant 2009), 139-158.
- Johan Schot, 'The Idea of Constructive Technology Assessment', in: Carl Mitcham (ed.), *Encyclopedia of Science, Technology, and Ethics* (Thomson Gale, Macmillan 2005), 423-426.
- O. de Wit, J. van den Ende, J. Schot and E. van Oost, 'Innovation Junctions: Office Technologies in the Netherlands, 1880-1980', in: Lisa Rosner (ed.), *The Technological Fix. How People Use Technology to Create and Solve Problems* (New York/London: Routledge 2004), 219-240.
- J.W. Schot en A. Rip, 'Techniek en de geschiedenis van Nederland in de twintigste eeuw', in: J.W. Schot, H.W. Lintsen, A. Rip, A. Albert de la Bruhèze et al. (eds.), *Techniek in Nederland in de Twintigste Eeuw. Volume VII: Techniek en Modernisering. Balans van de Twintigste Eeuw* (Zutphen: Walburg Pers 2003), 14-41.
- J.W. Schot en D. van Lente, 'Techniek als politiek: ingenieurs en de vormgeving van de Nederlandse samenleving', in: J.W. Schot, H.W. Lintsen, A. Rip, A. Albert de la Bruhèze et al. (eds.), *Techniek in Nederland in de Twintigste Eeuw. Volume VII: Techniek en Modernisering. Balans van de Twintigste Eeuw* (Zutphen: Walburg Pers 2003), 197-233.
- D. van Lente en J.W. Schot, 'Techniek, industrialisatie en de betwiste modernisering van Nederland', in: J.W. Schot, H.W. Lintsen, A. Rip, A. Albert de la Bruhèze et al. (eds.), *Techniek in Nederland in de Twintigste Eeuw. Volume VII: Techniek en Modernisering. Balans van de Twintigste Eeuw* (Zutphen: Walburg Pers 2003), 257-285.

- Johan Schot and Adri Albert de la Bruhèze, 'The Mediated Design of Products, Consumption and Consumers in the Twentieth Century', in: Nelly Oudshoorn and Trevor Pinch (eds.), *How Users Matter: The Co-Construction of Users and Technology* (Cambridge: MIT Press 2003), 229-246.
- Johan Schot, 'The Contested Rise of a Modernist Technology Politics', in: Thomas J. Misa, Philip Brey and Arie Rip (eds.), *Modernity and Technology* (Cambridge: MIT Press 2003), 257-278.
- J.W. Schot, 'De mobiliteitsexplosie in de twintigste eeuw', in: J.W. Schot et al. (eds.), *Techniek in Nederland in de Twintigste Eeuw. Volume V: Transport, Communicatie* (Zutphen: Walburg Pers 2002), 13-17.
- J.W. Schot, G.P.A. Mom, R. Filarski and P.E. Staal, 'Concurrentie en afstemming: water, rails, weg en lucht', in: J.W. Schot et al. (eds.), *Techniek in Nederland in de Twintigste Eeuw. Volume V: Transport, Communicatie* (Zutphen: Walburg Pers 2002), 19-43.
- G.P.A. Mom, J.W. Schot and P.E. Staal, 'Werken aan mobiliteit: de inburgering van de auto', in: J.W. Schot et al. (eds.), *Techniek in Nederland in de Twintigste Eeuw. Volume V: Transport, Communicatie* (Zutphen: Walburg Pers 2002), 45-73.
- H. van Driel and J.W. Schot, 'Het ontstaan van een gemechaniseerde massagoedhaven in Rotterdam', in: J.W. Schot et al. (eds.), *Techniek in Nederland in de Twintigste Eeuw. Volume V: Transport, Communicatie* (Zutphen: Walburg Pers 2002), 75-95.
- H. van Driel and J.W. Schot, 'Indirecte overslag en de komst van de container', in: J.W. Schot et al. (eds.), *Techniek in Nederland in de Twintigste Eeuw. Volume V: Transport, Communicatie* (Zutphen: Walburg Pers 2002), 97-115.
- M.L.J. Dierikx, J.W. Schot and A. Vlot, 'Van uithoek tot knooppunt: Schiphol', in: J.W. Schot et al. (eds.), *Techniek in Nederland in de Twintigste Eeuw. Volume V: Transport, Communicatie* (Zutphen: Walburg Pers 2002), 117-143.
- J.W. Schot, 'Begrensd mobiliteit?', in: J.W. Schot et al. (eds.), *Techniek in Nederland in de Twintigste Eeuw. Volume V: Transport, Communicatie* (Zutphen: Walburg Pers 2002), 145-149.
- Arie Rip and Johan W. Schot, 'Identifying Loci for Influencing the Dynamics of Technological Development', in: K.H. Sørensen and R. Williams (eds.), *Shaping Technology, Guiding Policy: Concepts, Spaces and Tools* (Cheltenham: Edward Elgar 2002), 155-172.
- Johan Schot, 'Towards New Forms of Participatory Technology', in: Andrew Jamison and Harald Rohracher (eds.), *Technology Studies & Sustainable Development* (München/Wien: Profil 2002) 41-63.
- Johan Schot, 'Constructive Technology Assessment as Reflexive Technology Politics', in: Philippe Goujon and Bertrand Hériard Dubreuil (eds.), *Technology and Ethics. A European Quest for Responsible Engineering.*, (Leuven: Peeters 2001), 239-249.
- Remco Hoogma and Johan Schot, 'How Innovative Are Users? A Critique of Learning-By-Doing and -Using', in: Rod Coombs, Ken Green, Albert Richards and Vivien Walsh (eds.), *Technology and the Market. Demand, Users and Innovation* (Cheltenham: Edward Elgar 2001), 216-233.
- René Kemp, Arie Rip and Johan Schot, 'Constructing Transition Paths Through the Management of Niches', in: Raghu Garud and Peter Karnøe (eds.), *Path Dependence and Creation* (New Jersey/London: Lawrence Erlbaum Associates Publishers 2001), 269-299.
- F.V. van der Most, J.W. Schot and B.P.A. Gales, 'Zout', in: J.W. Schot et al. (eds.), *Techniek in Nederland in de Twintigste Eeuw. Volume II* (Zutphen: Walburg Pers 2000), 91-102.
- Arie Rip and Johan Schot, 'Anticipating on Contextualization – Loci for Influencing the Dynamics of Technological Development', in: D. Sauer and C. Lang (ed.), *Paradoxien der Innovation. Perspektiven sozialwissenschaftlicher Innovationsforschung* (Frankfurt/New York: Campus Verlag 1999), 129-146.
- B. Elzen, R. Hoogma and J. Schot, 'Integrating Electric Vehicles in a Sustainable Transport System: Strategic Niche Management as a New Policy-instrument', in: A. Rip (ed.), *Steering and Effectiveness in a Developing Knowledge Society* (Utrecht: Lemma Uitgeverij 1998), 91-110.
- J.W. Schot, H.W. Lintsen and A. Rip, 'Betwiste Modernisering', in: J.W. Schot et al. (eds.), *Techniek in Nederland in de Twintigste Eeuw. Volume I* (Zutphen: Walburg Pers 1998), 19-36.
- J.W. Schot, H.W. Lintsen en A. Rip, 'Methode en opzet van het onderzoek', in: J.W. Schot et al. (eds.), *Techniek in Nederland in de Twintigste Eeuw. Volume I* (Zutphen: Walburg Pers 1998), 37-52.

- Johan Schot, 'Duurzame ontwikkeling: een uitdaging voor de industrie', in: K.R.D. Lulofs en G.J.I. Schrama (eds.), *Ketenbeheer. Jaarboek 1998 van het Centrum voor Schone Technologie en Milieubeleid*, (Universiteit Twente: 1997), 143-154.
- Peter Groenewegen, Kurt Fischer, Edith G. Jenkins and Johan Schot, 'Introduction', in: Peter Groenewegen, Kurt Fischer, Edith G. Jenkins and Johan Schot (eds.), *The Greening of Industry Resource Guide and Bibliography* (Washington D.C: Island Press 1996), 1-7.
- Johan Schot, 'Innoveren in Nederland', in: Harry Lintsen et al., *Techniek en Modernisering in Nederland, 1800-1890*. Volume VI (Zutphen: Walburg Pers 1995), 217-240.
- Arie Rip, Tom Misa, and Johan Schot, 'Constructive Technology Assessment: A new Paradigm for Managing Technology in Society', in: Arie Rip, Tom Misa and Johan Schot (eds.), *Managing Technology in Society. The Approach of Constructive Technology Assessment* (London: Pinter Publisher 1995), 1-14.
- Arie Rip, Tom Misa and Johan Schot, 'Epilogue', in: Arie Rip, Tom Misa and Johan Schot (eds.), *Managing Technology in Society. The Approach of Constructive Technology Assessment* (London: Pinter Publisher 1995), 347-353.
- Johan Schot, Strategie en Milieu, in: Braakhuis et al. *Milieumanagement. Van kosten naar baten*. (Alphen aan den Rijn: Samson H.D. Tjeenk Willink 1995), 25-46.
- Boelie Elzen, Johan Schot en Remco Hoogma, 'Strategies for Influencing the Car System', in: Knut Holtan Sørensen, *The Car and Its Environments: the Past, The Present and Future of the Motorcar in Europe* (Luxembourg: European Commission 1994).
- Johan Schot and Ernst Homburg, 'Meekrap en Garancine', in: Harry Lintsen et al. (eds.), *Techniek en modernisering in Nederland, 1800-1890*. Volume IV (Zutphen: Walburg Pers 1994) 217-240.
- Johan Schot and Kurt Fischer, 'Introduction: The Greening of the Industrial Firm', in: Kurt Fischer and Johan Schot (eds.), *Environmental Strategies for Industry: International Perspectives on Research Needs and Policy Implications* (Washington: Island Press 1993), 3-33.
- Jacqueline Cramer and Johan Schot, 'Environmental Comakership among Firms as a Cornerstone in the Striving for Sustainable Development', in: Kurt Fischer and Johan Schot (eds.), *Environmental Strategies for Industry: International Perspectives on Research Needs and Policy Implications* (Washington: Island Press 1993), 311-328.
- Johan Schot and Kurt Fischer, 'Conclusion: Research Needs and Policy Implications', in: Kurt Fischer and Johan Schot (eds.), *Environmental Strategies for Industry: International Perspectives on Research Needs and Policy Implications* (Washington: Island Press 1993), 369-374.
- Johan Schot: 'Comments: The Tensions Between Paradigmatic and Local Features of Technical Change', in: M. Hard (ed.), *Automobile Engineering in a Dead End: Mainstream and Alternative Developments in the 20th Century*, Gothenburg University, 1992, 83-88.
- J.W. Schot, 'The Policy Relevance of the Quasi-Evolutionary Model: The Case of Stimulating Clean Technologies', in: Rod Coombs, Paolo Saviotti and Vivien Walsh (eds.), *Technological Change and Company Strategies* (London: Academic Press 1992), 185-200.
- J.W. Schot, 'Technology in Decline: a Search for Useful Concepts. The Case of the Madder Industry', in: Anthony S. Travis, Willem J. Hornix and Robert Bud (eds.), *Organic Chemistry and High Technology, 1850-1950*, Special Issue: British Journal for the History of Science (1992), 1, 5-26.
- Jacqueline Cramer and Johan Schot, 'Praktijkproblemen bij innovatie en diffusie van milieutechnologie belicht vanuit een technologie-dynamica perspectief', in: A.P.J. Mol, G. Spaargaren and A. Klapwijk, *Technologie en milieubeheer. Tussen sanering en ecologische modernisering* (Dan Haag: SDU Uitgeverij 1991), 81-91.
- J.W. Schot, 'Contouren van een milieutechnologiebeleid', in: H. Vollebergh, *Milieu en Innovatie* (Groningen: Wolters-Noordhoff 1989), 51-70.
- D. van Lente and J.W. Schot, 'Heijenbrock en de Nederlandse industrialisatie', in: W. Buitelaar en R. Vreeman (eds.), *In het spoor van Heijenbrock. Beelden van industriële ontwikkeling*. (Amsterdam: Uitgeverij De Balie 1988), 20-29.
- J.W. Schot, 'Zelfregelgeving als een spel', in: G. Huppes, W.T. de Groot and H. Bezemer, *Instrumenten voor Milieubeleid* (Alphen aan den Rijn: Samsom Uitgeverij 1988), 194-203.