

## PERSONAL INFORMATION

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**Name:** Prof.dr. J.W. (Johan) Schot  
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## EDUCATION

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**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

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**Since Oct 2019** Professor of Practice in the Chair in Transformative Innovation, 4IR & Sustainable Development, University of Johannesburg  
**Since Jan 2019** Professor Global History and Sustainability Transitions, Utrecht University Centre for Global Challenges  
**2014–2018** Director of SPRU (Science Policy Research Unit), Professor History of Technology and Sustainability Transitions, University of Sussex  
**1999–2014** Professor History of Technology and Transition Studies, Eindhoven University of Technology  
**1999–2003** Professor Social History of Technology, University of Twente  
**1991–1999** Associate Professor and Assistant Professor, University of Twente  
**1985–1991** Junior/Senior Consultant, TNO Centre for Technology and Policy Studies

## FELLOWSHIPS, AWARDS AND HONOURS (SELECTION)

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**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 Edelman Fellowship of the Sidney Edelman Foundation, The Hebrew University of Jerusalem  
**1987** Prof.dr.ir. R.J. Forbes Prize for young scholars in the history of technology

## FOUNDER

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I am co-founder of the Greening of Industry Network (1989), the Tensions of Europe Network (1999), the Dutch Knowledge Network on Systems Innovation and Transitions to Sustainable Development (2002), the Transformative Innovation Policy Consortium (2016) and the Deep Transitions Research Project (2017).

## GRANTS (SELECTION)

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**2017/2022** Contested Directions of Deep Transitions by Baillie Gifford (philanthropic donation £1,5million)  
**2016/2022** 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 (£2 million over 6 years).
<b>2015/2016</b>	Transformative Innovation Policy and Evaluation Technical Agreement for research, training and mentoring, Colombian Administrative Department of Science, Technology and Innovation-Colciencias (£300.000)
<b>2015</b>	Co-Applicant, Norwegian Research Council Grant, Responsible Innovation and Happiness, A New Approach to the Effects of ICTs (SPRU part, £149.703)
<b>2013</b>	Co-Applicant, EU 7th Framework Project Sustainable Life Style 2.0. End-User Integration, Innovation and Entrepreneurship (TU/e part €286.100)
<b>2011</b>	Grant Netherlands Organization for Scientific Research for program on <i>Historical Roots of Dutch Sustainability Challenge</i> (€750.000)
<b>2009</b>	Netherlands Institute for Advanced Studies (NIAS), Proposal accepted for the establishment of a theme group on Technology and European History
<b>2005</b>	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).
<b>2004</b>	Grant for program <i>Knowledge Network for Systems Innovation and Transitions towards Sustainable Development</i> (€20 million)
<b>2002</b>	NWO VICI Grant Transnational Infrastructures and the Rise of Contemporary Europe (€1,4 million)
<b>2000</b>	A European Science Foundation (ESF) Network grant (€93,000).
<b>1998</b>	A Netherlands Council for Scientific Research (NWO), Large Program Grant for <i>Technology and the Making of the Netherlands</i> (€1.5 million).
<b>1997</b>	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).
<b>1996</b>	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

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<b>2014 – 2018</b>	Director of SPRU (Science Policy Research Unit), University of Sussex.
<b>2009 – 2013</b>	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.
<b>2009 – 2011</b>	Program Director Master Innovation Sciences, Eindhoven University of Technology.
<b>2007 – 2009</b>	Research Director of the Eindhoven Centre for Innovation Studies (100 people).
<b>1998 – 2015</b>	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.
<b>2004 – 2010</b>	Research Director of the Foundation for System Innovations and Transitions towards Sustainable Development (KSI) (80-100 researchers).
<b>2005 – 2009</b>	Director of the KSI Graduate Program (40 PhD Students).
<b>1996 – 2002</b>	Research Director of the National Research program Technology in the Netherlands in the Twentieth Century (TIN-20) (70-80 researchers).

## PROFESSIONAL DUTIES (SELECTION)

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<b>Since 2019</b>	Member of the European Commission's Assembly for Adaptation to Climate Change, including Societal Transformation
<b>Since 2019</b>	Chair of the Advisory Board of the DST/NRF/Newton Fund Trilateral Research Chair in Transformative Innovation, the 4th Industrial Revolution and Sustainable Development
<b>Since 2019</b>	Member of Misión de Sabios, International Mission of Experts for Science, Technology and Education of Colombia
<b>Since 2018</b>	Member of the Advisory Board for Inventing a shared Science Diplomacy for Europe (InsSciDE)
<b>2017</b>	Commission Chair Research Assessment Faculty of Arts and Social Sciences, Maastricht University
<b>2016 – 2018</b>	Member of the Executive Committee of the European Forum for the Studies of Policies for Research and Innovation (EU-SPRI)
<b>2016 – 2018</b>	Member of the Scientific Council on the International Panel on Social Progress
<b>2015 – today</b>	Advisor to the Governing Board of the Foundation for the History of Technology (Stichting Historie der Techniek)
<b>2015 – 2016</b>	Member of the Development Group to establish the UK Association for the Study of Innovation, Science and Technology
<b>2014 – today</b>	Chairman of the Scientific Committee of the Netherlands Institute for Advanced Studies (NIAS)
<b>2011 – 2014</b>	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 <a href="http://www.inventingeurope.eu">www.inventingeurope.eu</a>
<b>2010 – 2011</b>	Coordinator Theme Group <i>Inventing Europe</i> Netherlands Institute for Advanced Studies in the Humanities and Social Sciences.

<b>2010 – 2019</b>	Editor of Palgrave/MacMillan Book Series <i>Making Europe. Technology and Transformations 1850-2000</i> (published 2013-2019).
<b>2010 – 2016</b>	Member of Editorial Board of <i>Transfers Interdisciplinary Journal of Mobility Studies</i> .
<b>2010 – today</b>	Member of Editorial Board of <i>Societal Transition and Environmental Innovation</i> .
<b>2009 – 2018</b>	Editor of <i>Routledge Studies in Sustainability Transitions</i> .
<b>2008 – 2018</b>	Editor of Amsterdam University Press Book Series <i>Technology and European History</i> .
<b>2007 – 2010</b>	Chair of the Scientific Committee of the European Science Foundation EUROCORES Research Program <i>Inventing Europe</i> .
<b>2007 – 2012</b>	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.
<b>2004</b>	Main Organizer of the 2004 Annual Conference of the Society for the History of Technology in Amsterdam.
<b>2000 – today</b>	Member of the Editorial Board of <i>Technology Analysis &amp; Strategic Management</i> .
<b>2001 – 2003</b>	Chairman of the European Science Foundation Network <i>Tensions of Europe. Technology and the Making of 20th Century Europe</i> .
<b>2000 – 2003</b>	(Elected) Member of the Executive Council of the Society for the History of Technology.
<b>1998 – 2003</b>	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.
<b>1997 – 2007</b>	Research Director of the Subprogram Globalisation, Technical Change and Economic Development, of the N.W. Posthumus Institute for Social and Economic History.
<b>1989 – 1995</b>	Editor of the six volume series <i>Geschiedenis van de Techniek in Nederland. De Wording van een Moderne Samenleving, 1800-1890</i> (published 1992-1995).

## CURRICULUM DEVELOPMENT AND COURSE AREAS TAUGHT UNDERGRADUATE AND GRADUATE LEVEL

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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 Eindhoven University of Technology. I am currently involved in developing a Master program on Global Transformations (working title) at Utrecht University.

At the University of Twente and Eindhoven University of Technology I have taught in the following areas:

- 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

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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.

Legendijk, 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.

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

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

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

Torrens, Jonas, 'The formation of favourable environments for urban experimentation: Contextual dynamics and transformative capacities in Bristol and Medellín', SPRU, University of Sussex, graduated in 2018

Gosh, Bipashyee, 'Transformations beyond experimentation: Sustainability transitions in megacities', SPRU, University of Sussex, graduated in 2018

Yang, Keija, 'Actor interactions and Transformation: Development of Solar and Wind Power in China post 2000' (working title), SPRU, University of Sussex, expected in 2020

Goyeneche, Oscar Romero, 'Implementing the Sustainable Development Goals in Latin American Research Systems: Perspectives from Deep Transitions' (working title), Utrecht University Centre for Global Challenges, expected in 2023

## LIST OF REFEREED ARTICLES, BOOKS AND BOOK CHAPTERS

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### RECENT KEY PUBLICATIONS

Johan Schot and Laur Kanger, 'Deep transitions: Theorizing the long-term patterns of socio-technical change', *Environmental Innovation and Societal Transitions*, 2019, 32, 7-21.

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

Johan Schot and W. Edward Steinmueller. 'Three frames for innovation policy: R&D, systems of innovation and transformative change.' *Research Policy*, 2018, 47 (9), 1554-1567.

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)

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### WORKING PAPERS

Yang, K., Schot, J. and Truffer, B. Shaping the Directionality of Sustainability Transitions: The Diverging Development Patters of Solar PV in Two Chinese Provinces" SWPS 2020-14 (August) Online access; <https://www.sussex.ac.uk/webteam/gateway/file.php?name=2020-14-swps-yang-et-al.pdf&site=25>

Ghosh, B., Kivimaa, P., Ramirez, M., Schot, J., Torrens, J., 2020. Transformative Outcomes : Assessing and reorienting experimentation with transformative innovation policy Transformative outcomes, TIPC Working Paper, TIPCWP 2020-02 Online access: <http://www.tipconsortium.net/wp-content/uploads/2020/07/Transformation-outcomes-TIPC-working-paper.pdf>

Molas-Gallart, J., Boni, A., Schot, J., Giachi, S., 2020. A formative approach to the evaluation of Transformative Innovation Policy; TIPC Working Paper, TIPCWP2020-01, Online access: <http://www.tipconsortium.net/wp-content/uploads/2020/07/Paper-FORETIP-1.pdf>

### REFEREED ARTICLES

Kejia Yang, Ralitsa Petrova Hiteva and Johan Schot, 'Expectation dynamics and niche acceleration in China's wind and solar power development' *Environmental Innovation and Societal Transitions*, 2020, 36, 177-196

Johan Schot and Laur Kanger, 'Deep transitions: Theorizing the long-term patterns of socio-technical change', *Environmental Innovation and Societal Transitions*, 2019, 32, 7-21.

Jonas Torrens, Johan Schot, Rob Raven and Phil Johnstone, 'Seedbeds, harbours, and battlegrounds: On the origins of favourable environments for urban experimentation with sustainability', *Environmental Innovation and Societal Transitions*, 2019, 31, 211-232.

Laur Kanger, Frank W. Geels, Benjamin Sovacool and Johan Schot, 'Technological diffusion as a process of societal embedding: Lessons from historical automobile transitions for future electric mobility', *Transportation Research Part D: Transport and Environment*, 2019, 71, 47-66.

Johan Schot and W. Edward Steinmueller. 'Three frames for innovation policy: R&D, systems of innovation and transformative change.' *Research Policy*, 2018, 47 (9), 1554-1567.

Schot, Johan, and W. Edward Steinmueller. "New directions for innovation studies: Missions and transformations." *Research Policy* 47.9 (2018): 1583-1584.

Johan Schot, Jonas Torrens and Philip Johnstone, '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*, 2018, 47 (6), 1045-1059.

Johan Schot and Laur Kanger, 'User-made immobilities: a transitions perspective', *Mobilities*, 2016, 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, '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, 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, 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 Buitter 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 industrialisatie-debat', 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, e.d. International Panel on Social Progress. (2018). *Rethinking Society for the 21st Century: Report of the International Panel on Social Progress*. Cambridge University Press, 2018.

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).

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