

## Ralph Schroeder

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Citizenship: Dual UK-US

### Employment

#### University of Oxford, Oxford Internet Institute, UK

2009- Senior Research Fellow, M.Sc. Programme Director, Director of Research  
2006-2009 James Martin Research Fellow  
2004-2006 Research Fellow

#### Chalmers University, School of Technology Management and Economics, Sweden

1998- 2004 Professor of Technology and Society

#### Royal Holloway, University of London, UK

1995-1997 Lecturer (Associate Professor) in Sociology

#### Brunel University, London, UK

1989-1995 Lecturer (Assistant/Associate Professor) in the Department of Human Sciences

### Education

1988 Ph.D., Department of Government, London School of Economics  
1981 M.Sc. in Political Philosophy, London School of Economics  
1980 B.A., Philosophy and History, Williams College, Massachusetts

### Languages

German (fluent), Swedish, French.

### Research Grants (selected)

2009-2011 'Oxford e-Social Science Project: Ethical, Legal and Institutional Responses to Emerging e-Research Infrastructure Policies and Practices', Economic and Social Sciences Research Council, £1,000,000 (\$2,000,000), Co-Investigator

2009-2010 'eResearch 2020: The Role of e-Infrastructures in the Creation of Global Virtual Research Communities', European Union, €250,000 (\$330,000), Co-Investigator

2008-2009 'World Wide Web of Humanities', Joint Information Systems Committee (UK) and National Endowment for Humanities (US), £63,000 (\$93,000), Co-Investigator

2008-2009 'Toolkit for the Impact of Digitised Scholarly Resources', Joint Information Systems Committee, £50,000 (\$74,000), Co-Investigator

2006-2009 'Embedding e-Science Applications – Designing and Managing for Usability', supported by Engineering and Physical Sciences Research Council, £271,000 (\$525,000), Co-Investigator.

2006-2009 PEACH 'Presence Research in Action', European Union Coordination Action, £42,000 (\$80,000), participant responsible for workpackage on ethical and legal issues

2005-2007 'Oxford e-Social Science project: Ethical, Legal and Institutional Dynamics of e-Sciences', Economic and Social Sciences Research Council, £400,000 (\$750,000), Co-Investigator

2004-2005 'The World Wide Web of Science: Emerging Global Sources of Expertise', Economic and Social Sciences Research Council, £44,000 (\$80,000), Principal Investigator

2001-2004 'Living in a Virtual World: Adaptation to the Long-term Uses of Virtual Reality', Swedish Agency for Innovation Systems, SEK 2,057,000 (\$200,000), Principal Investigator

1999-2001 'Intercultural Communication in Virtual Environments', Swedish Transportation and Communications Board, SEK 1,497,486 (\$150,000), Principal Investigator

- 2000 'Networked Immersive Virtual Environments and Long-term Uses of Virtual Environments: Preliminary Studies', Swedish Transportation and Communications Board, SEK 400,000 (\$40,000), Principal Investigator
- 1999 'Future Directions in Virtual Reality', Swedish Transportation and Communications Board, SEK 228,864 (\$23,000), Principal Investigator
- 1997-1998 'Multi-User Virtual Reality Technology as a Laboratory for Learning about Social Research: Issues and Prospects', UK Advisory Group on Computer Graphics (AGOCG), with Ray Lee
- 1992-1993 'The Sociology of Virtual Reality', Brunel University BRIEF award for research visits to the United States and within the UK and for research assistants
- 1991-1992 Anglo-Swedish Foundation grant to establish academic and student exchange links between Brunel University and Karlstad University

### **Awards and Fellowships**

- 2009 Social Sciences Division Teaching Excellence Award
- 2008 Visiting Research Fellowship, University of Sydney School of Information Technologies (Jan. to March)
- 2007- Senior Research Associate, Keble College, Oxford
- 2004 Visiting Fellow, Oxford Internet Institute, Oxford University (February to May)
- 2003 Visiting Scholar, Scancor, Stanford University (February to May)
- 1990-1991 Goethe Institute award to organise international conference on Max Weber
- 1986-1987 University of London research studentship at the Free University of Berlin

### **Recent Invited Keynote Talks**

- 2010 'The Future of Virtual Environments', Institute of Education, London Knowledge Lab conference 'Where Next?', 25<sup>th</sup> January
- 2009 'Virtual Environments and the Future of Distance Collaboration', Learning Futures Festival '09, University of Leicester, 8<sup>th</sup> January

### **Editorial Boards**

- 2003-2007 Presence: Journal of Teleoperators and Virtual Environments
- 2000- Max Weber Studies
- 1998- Virtual Reality
- 1996-2001 Sociological Research Online

### **University Service and Administrative Experience (selected)**

- 2007-2008 Social Sciences Board representative for the Oxford Internet Institute
- 2006- Graduate Studies Committee, Oxford Internet Institute
- 2002-2003 Head of Department, Department of Technology and Society, Chalmers University
- 2000-2004 Appointments Committee, Chalmers Faculty of Technology Management and Economics
- 1996-1997 Admissions Tutor, Royal Holloway
- 1992-1995 Senior Tutor, Brunel University

### **Teaching Experience and Ph.D. Supervision (selected)**

My teaching has included: Classical and Contemporary Sociological Theory; Sociology of Culture; Political Sociology; Social Philosophy; Sociology of New Technologies; Ethical and Social Issues in Genetics and Biotechnology; Science, Technology and Society; Computers, Communication and Social Networks; Economy in a Global Society; Technology for a Global Sustainable Society; Social Dynamics of the Internet; Networks of Collaboration.

### **Ph.D. supervision**

- 2007- Han-Teng Liao, provisional thesis topic 'The Cultural Politics of Chinese Online Encyclopedias'
- 2007- Lucy Power, provisional thesis topic 'e-Research in the Life Sciences'
- 2006- Tobias Escher, provisional thesis topic 'Contacting MPs on the Internet in the UK and Germany'

- 2000-2004 Ilona Heldal, Ph.D. thesis, 'Usability of Collaborative Virtual Environments'  
 2000-2004 Ann-Sofie Axelsson, Ph.D. thesis, 'Framing Social Interaction in Shared Virtual Environments'

## Publications

h-Index: 17  
 Publications: 115  
 Times cited: 1309

## Books:

- 2010 Being There Together: Social Interaction in Virtual Environments (New York and Oxford, Oxford University Press, Series in Human-Technology Interaction), 324 pages.  
 2007 Rethinking Science, Technology and Social Change (Stanford: Stanford University Press), 179 pages.  
 1996 Possible Worlds: The Social Dynamic of Virtual Reality Technologies (Boulder: Westview Press), 203 pages.  
 1992 Max Weber and the Sociology of Culture (London: Sage), in the series: 'Theory, Culture and Society', 177 pages. (also published in Turkish and Indonesian)

## Edited Books:

- 2005 Edited with John Hall, An Anatomy of Power: Michael Mann's Social Theory. (Cambridge: Cambridge University Press), 409 pages.  
 2005 Edited with Ann-Sofie Axelsson, Avatars at Work and Play: Collaboration and Interaction in Shared Virtual Environments. (London: Springer), 277 pages.  
 2002 The Social Life of Avatars: Presence and Interaction in Shared Virtual Environments. (London: Springer), 223 pages.  
 1998 Max Weber, Democracy and Modernization (Basingstoke: Macmillan), 206 pages.

## Articles:

(full list, including author order, and copies of selected publications are available at <http://people.oii.ox.ac.uk/schroeder/>)

## Articles in Refereed Journals

- [1] 2010 'The Limits to Transforming the Environment and the Limits to Sociological Knowledge', Sustainability, 2, 2483-2498.  
 [2] 'Durkheim and Weber on the Social Implications of New Information and Communication Technologies' (with Rich Ling), submitted for journal publication.  
 [3] 'The Disembeddedness of the Modern Economic Order', submitted for journal publication.  
 [4] 'The Three Cultures of Post-Industrial Societies', Sociological Focus, forthcoming.  
 [5] 2009 'Mobile phones and the inexorable advance of multimodal connectedness', New Media and Society, vol.12, no.1, pp.75-90.  
 [6] 2009 'New Techniques in Online Research: Challenges for Research Ethics', with R.Eynon and J.Fry, 21<sup>st</sup> Century Society: Journal of the Academy of Social Sciences, vol.4., no.2: 187-99.  
 [7] 2009 'Making it Open and Keeping it Safe: e-Enabled Data Sharing in Sweden', with Ann-Sofie Axelsson, forthcoming, Acta Sociologica, vol.52(3): 213-26 (earlier version in Proceedings of the Third International Conference on e-Social Science, October 7-9, 2007, Ann Arbor, Michigan, US).  
 [8] 2009 'The World Wide Web of Research and Access to Knowledge', with Eric Meyer, Knowledge Management Research and Practice (7): 218-33.  
 [9] 2009 'Untangling the Web of e-Research', with Eric Meyer, Journal of Informetrics (3): 246-60.  
 [10] 2009 'Sifting through the Online Web of Knowledge', with Eric Meyer, Interdisciplines: Scientific Publications 3.0, <http://www.interdisciplines.org/liquidpub>  
 [11] 2009 'Life Science Research and Drug Discovery at the Turn of the 21<sup>st</sup> Century: The Experience of SwissBioGrid' with M.Den Besten and A.Thomas, Discovery and Collaboration, 4 (5), 15

pages (available online at  
<http://www.uic.edu/htbin/cgiwrap/bin/ojs/index.php/jbdc/index>)

- [12] 2009 'Open Science in e-Science: Contingency or Policy?' with Fry, J. and M. Den Besten, *Journal of Documentation*, vol.65, no.1, pp.6-32.
- [13] 2008 'e-Sciences as Research Technologies: Reconfiguring Disciplines, Globalizing Knowledge' *Social Science Information*, vol 47, 2: 131-57.
- [14] 2008 'Literary Sleuths Online: e-Research Collaboration on the Pynchon Wiki', with M. den Besten, *Information, Communication and Society*, 11, 2: 167-87.
- [15] 2008 'Web Search and Access to Global Knowledge: Democratizing Expertise or Creating new Hierarchies?', with Alexandre Caldas, Gustavo Mesch and Bill Dutton, *Journal of Computer-Mediated Communication*, 13, 769-93.
- [16] 2007 'e-Research Infrastructures and Open Science: Towards a New System of Knowledge Production?', in *Prometheus*, 25(1), pp.1-17.
- [17] 2007 'Social Science Perspectives on e-Sciences', with Jenny Fry, *Journal of Computer-Mediated Communication*, vol.12(2), <http://jcmc.indiana.edu/vol12/issue2/schroeder.html>.
- [18] 2007 'Ethical and Social Issues in Shared Virtual Environments: An Overview of the Issues', *Futures: A Journal of Forecasting, Policy and Planning*, 39, pp.704-717.
- [19] 2006 'The Usability of Collaborative Virtual Environments and Methods for the Analysis of Interaction', with Jolanda Tromp and Ilona Heldal, *Presence: Journal of Teleoperators and Virtual Environments*, 15(6), pp.655-667.
- [20] 2006 'Being There and the Future of Connected Presence' in *Presence: Journal of Teleoperators and Virtual Environments*, 15(4), pp.438-454. Shorter version in *Proceedings of Presence 2005*, London UK, Sept. 21-23.
- [21] 2006 'The Effect of Behavioral Realism and Form Realism of Real-Time Avatar Faces on Verbal Disclosure, Nonverbal Disclosure, Emotion Recognition, and Copresence in Dyadic Interaction', with Jeremy Bailenson, Nick Yee and Dan Merget. In *Presence: Journal of Teleoperators and Virtual Environments*, 15(4), pp.359-372 (previous version in *Proceedings of Presence 2005*, London UK, Sept. 21-23.)
- [22] 2005 'Successes and Failures in Copresent situations', with Ilona Heldal, Anthony Steed, Maria Spante, Sophia Bengtsson and Marja Partanen, in *Presence: Journal of Teleoperators and Virtual Environments* 14(5), pp.563-579.
- [23] 2003 'Anyone Speak Spanish? Language Encounters in Multi-User Virtual Environments and the Influence of Technology' with Åsa Abelin and Ann-Sofie Axelsson, *New Media and Society*, Vol.5 (4), pp. 475-498. (Updated version 'Anyone Speak Swedish' in Brenda Danet and Susan Herring (eds), *The Multi-Lingual Internet* (New York: Oxford University Press).
- [24] 2002 'The Consumption of Technology in Everyday Life: Car, Telephone, Television in Sweden and America in a Comparative-Historical Perspective'. *Sociological Research Online*, vol.7, no 4. (20pp.)
- [25] 2002 'Weberian Perspectives on Science, Technology and Economics', with Richard Swedberg, *British Journal of Sociology*, vol.53, no.3, pp. 383-401.
- [26] 2001 'Weber, Pynchon and the American Prospect' in *Max Weber Studies*, vol.1, issue 2, pp.161-177.
- [27] 2001 'Collaborating in networked immersive spaces: as good as being there together?', with Ann-Sofie Axelsson, Ilona Heldal, Åsa Abelin, Josef Wideström, Alexander Nilsson, with Anthony Steed, and Mel Slater, in *Computers & Graphics*, vol.25, pp.781-788.
- [28] 2001 'Activeworlds: geography and social interaction in virtual reality', with Andy Smith and

Avon Huxor, in *Futures*, vol.33, pp.569-587.

- [29] 2001 'Cubes in the Cube: A Comparison of a Puzzle-Solving Task in a Virtual and a Real Environment', with Ann-Sofie Axelsson, Åsa Abelin, Ilona Heldal, Josef Wideström, in *Cyberpsychology and Behaviour*, vol.4, no.2., pp.279-286.
- [30] 2000 'Intercultural Communication in Virtual Environments' with Jens Allwood in *Intercultural Communication*, issue 3, April, available online at <http://www.immi.se/intercultural/nr3/allwood.htm>.(17pp.)
- [31] 2000 'Small Group Behaviour in a Virtual and Real Environment: A Comparative Study' with Mel Slater, Amela Sagadic and Martin Usoh, *Presence: Teleoperators and Virtual Environments*, vol.9, no.1, 37-51.
- [32] 1999 'Social Life in Virtual Worlds: Structure and Interaction in Multi-User Virtual Reality Technology' in *Communications & Strategies*, no.33, 1<sup>st</sup> quarter 1999, p.137-150. (Different version, 'Social Aspects of Virtual Reality Technology', in Hacer Ansal and Deniz Calisir (eds.), *Science, Technology and Society International Symposium*, Istanbul Technical University, ISBN 975-561-161-4, p.155-165. Different version available online in Creative Room for Art and Computing (CRAC) journal *Crac in Context* <http://www.crac.org/contextmapp/ralph.htm>. (7pp.)
- [33] 1998 'The Sacred and the Virtual: Religion in Multi-User Virtual Reality' with Noel Heather and Ray Lee, in *Journal of Computer-Mediated Communication*, issue 2, vol 4, December available online at <http://www.ascusc.org/jcmc/vol4/issue2/schroeder.html>.
- [34] 1997 'Networked Worlds: Social Aspects of Networked Multi-User Virtual Reality Technology' in *Sociological Research Online*, vol.2, no.4, <http://www.socresonline.org.uk/socresonline/2/4/5.html>
- [35] 1996 'Virtual Environments and the Varieties of Interactive Experience in Information and Communication Technologies' in *Convergence: The Journal of Research into New Media Technologies*, vol 1., no.2, pp.45-55.
- [36] 1995 'Disenchantment and its Discontents: Weberian Perspectives on Science and Technology', *Sociological Review*, vol.43, no.2, pp.227-250.
- [37] 1995 'Learning from Virtual Reality Applications in Education', *Virtual Reality: Research, Development & Applications*, vol.1, no.1, pp.33-40.
- [38] 1995 'Virtual Reality and the Future of Human-Computer Interfaces: The Electronic Frontier in Social Context' in *Journal of Intelligent Systems*, vol.5, no.2-4, pp.111-123.
- [39] 1994 'Cyberculture, Cyborg Postmodernism and the Sociology of Virtual Reality Technologies: Surfing the Soul in the Information Age' in *Futures: a journal of forecasting, planning and policy*, vol.26, no.5, pp. 519-528.
- [40] 1993 'Virtual Reality in the Real World: History, Applications, Projections', *Futures: A journal of forecasting, planning and policy*, vol. 25, no.9, pp.963-973 [Reprinted in Nick Heap et al. (eds) *Information Technology and Society* (London: Sage, 1994)].
- [41] 1991 "'Personality" and "Inner Distance": The conception of the Individual in Weber's sociology' in *History of the Human Sciences*, vol.4, no.1, pp.61-78.
- [42] 1990 'From Puritanism to Paranoia: Trajectories of History in the Works of Pynchon and Weber' in *Pynchon Notes*, no.26-27, pp.69-80.

#### Articles in Refereed Proceedings

- [43] 2009 'Mapping the Varieties of e-Research Infrastructures', with Eric Meyer, Kathryn Eccles, and others, submitted for publication.
- [44] 2009 'Gauging the Impact of e-Research in the Social Sciences', with Eric Meyer, presented at

- the American Sociological Association Annual Conference, San Francisco, Aug.8-11, submitted for publication.
- [45] 2009 'The Future of e-Research Infrastructures', with Eric T. Meyer, Kathryn Eccles, Zack Kertcher, Franz Barjak, Tobias Huesing, Simon Robinson, Proceedings of the 5<sup>th</sup> International Conference on e-Social Science, 24-26 June 2009, Cologne.
- [46] 2009 'Mapping Global e-Research: Scientometrics and Webometrics', with Eric T. Meyer, Han-Woo Park. Proceedings of the 5<sup>th</sup> International Conference on e-Social Science, 24-26 June 2009, Cologne.
- [47] 2009 'Embedding e-Research Technologies in Everyday Life', with Dimitrina Spencer, Proceedings of the 5<sup>th</sup> International Conference on e-Social Science, 24-26 June 2009, Cologne (submitted for journal publication).
- [48] 2009 'Bottom-up, Top-Down, and other social and technological dynamics of e-Research', with Kathryn Eccles, Eric Meyer and others, presented at the UK e-Science All Hands Meetings 2009.
- [49] 2007 'Virtual Environments and Other Media for Being There Together: Towards a Convergence of Technologies, Uses, and Research Agendas', Proceedings of Presence 2007, Barcelona, Spain, October.
- [50] 2007 'Scoping the Online Visibility of e-Research by Means of e-Research Tools', with R. Ackland and J. Fry, Proceedings of the Third International Conference on e-Social Science, October 7-9, 2007, Ann Arbor, Michigan, US.
- [51] 2007 'Developing an e-Infrastructure for Social Science', with Michael Daw et al., in Proceedings of the Third International Conference on e-Social Science, October 7-9, 2007, Ann Arbor, Michigan, US.
- [52] 2006 'How Open is e-Science?', with Paul David and Matthijs den Besten, 2<sup>nd</sup> IEEE International Conference on e-Science and Grid Computing, Amsterdam, see <http://www.oii.ox.ac.uk/microsites/oess/papers.cf>
- [53] 2006 'e-Sciences: Infrastructures that Reshape the Global Contours of Knowledge', in Proceedings of the Second International Conference on e-Social Science, Manchester June 2006, see <http://www.oii.ox.ac.uk/microsites/oess/papers.cfm>
- [54] 2005 'Personal Interaction between Users of Immersion Projection Technology Systems', with Anthony Steed, David Roberts and Ilona Heldal, in Proceedings of HCI 2005, Las Vegas.
- [55] 2005 'Evaluating Collaboration in Distributed Virtual Environments for a Puzzle-Solving Task', with Anthony Steed and Ilona Heldal, in Proceedings of HCI 2005, Las Vegas.
- [56] 2005 'The World Wide Web of Science: Reconfiguring Access to Information' with Alex Caldas, Gustavo Mesch and Bill Dutton, in Proceedings of the First International Conference on e-Social Science, Manchester UK, 22-24 June.  
[www.ncess.ac.uk/events/conference/programme/papers/ncess2005\\_paper\\_Schroeder.pdf](http://www.ncess.ac.uk/events/conference/programme/papers/ncess2005_paper_Schroeder.pdf)
- [57] 2005 'Immersiveness and Symmetry in Copresent Scenarios', with Ilona Heldal, Anthony Steed, Ann-Sofie Axelsson, Josef Widestrom and Maria Spante, Proceedings of IEEE VR 2005, Bonn, Germany.
- [58] 2004 'How Putting Yourself into the Other Person's Virtual Shoes Enhances Collaboration', with Maria Spante, Ann-Sofie Axelsson and Michael Christie, in Proceedings of Presence 2004, Valencia, pp.190-196.
- [59] 2004 'The Usability of Shared Virtual Environments: A Comparison of Three Studies and Outlook on the Future', with Ilona Heldal, in Proceedings of Designing and Evaluating Virtual Reality Systems Workshop, Jan.22-23, Nottingham.

- [60] 2003 'Communication in Virtual Environments: Establishing Common Ground for a Collaborative Spatial Task?', with Ann-Sofie Axelsson and Asa Abelin, Proceedings of Presence 2003, Aalborg, Denmark.
- [61] 2003 'Beyond Presence and Copresence: A Phenomenological Account of Experiences in Shared Virtual Environments', in Proceedings of Presence 2003, Aalborg, Denmark.
- [62] 2003 'Is there a Tradeoff between Presence and Copresence?', with Maria Spante, Ann-Sofie Axelsson and Ilona Heldal, in Proceedings of Presence 2003, Aalborg, Denmark.
- [63] 2003 'Strangers and Friends in Networked Immersive Environments: Virtual Spaces for Future Living', Proceedings of Home Oriented Informatics and Telematics, Irvine CA, April 6-8, 16 pp.
- [64] 2003 'Strangers and Friends in Caves: An Exploratory Study of Collaboration in Networked IPT Systems for Extended Periods of Time', with Anthony Steed, Maria Spante, Ilona Heldal and Ann-Sofie Axelsson, in ACM SIGGRAPH 2003 Symposium on Interactive 3D Graphics (Monterey CA, April 27-30). ACM Press, New York, pp. 51-54.
- [65] 2002 'Performance and collaboration in virtual environments for visualizing large complex models: comparing immersive and desktop systems', with Ilona Heldal, Proceedings of the Eighth International Conference on Virtual Systems and Multimedia, VSMM2002: Gyeongju, Korea, pp.208-220.
- [66] 2002 'Copresence and Interaction in Virtual environments: An overview of the Range of Issues'. In Felize Ribeiro(ed.) Fifth International Workshop Presence 2002, Porto Portugal Oct.9-11,pp.274-295.
- [67] 2000 'The Collaborative Cube Puzzle: A Comparison of Virtual and Real Environments', with Josef Wideström, Ann-Sofie Axelsson, Alexander Nilsson and Åsa Abelin, in Elizabeth Churchill and Martin Reddy (eds) Proceedings of ACM Conference of the Third International Conference on Collaborative Virtual Environments, New York: ACM, pp.165-172.
- [68] 2000 'Cubes in the Cube: A Comparison of Virtual and Real Environments', with Ann-Sofie Axelsson, Åsa Abelin, Alexander Nilsson, Ilona Heldal and Josef Wideström, in Proceedings of Presence 2000 - 3<sup>rd</sup> International Workshop on Presence, in Delft, Holland.
- [69] 2000 'Trust in the Core: A Study of Long-term Users of Activeworlds', with Ann-Sofie Axelsson. Presented at Digital Borderlands, a Cybercultural Symposium in Norrköping, Sweden 12-13 May. (submitted for journal publication).
- [70] 1999 'Collaboration and Communication in Multi-User Virtual Environments: A Comparison of Desktop and Immersive Virtual Reality Systems for Molecular Visualization', with Ann-Sofie Axelsson, Åsa Abelin, Ilona Heldal, Alexander Nilsson and Josef Wideström, in Terence Fernando (ed.), Proceedings of the Sixth UKVRSIG Conference, 14th September, Salford University, pp.107-117.
- [71] 1999 'Trust in Virtual Environments', with Ann-Sofie Axelsson in Proceedings of Presence 1999 - 2<sup>nd</sup> International Workshop on Presence, in Essex, UK. Available on CD.
- [72] 1998 'Multi-User Virtual Reality Technology as a Laboratory for Learning about Social Research: Issues and Prospects', with Ray Lee, in David Unwin and Peter Fischer (eds), Case Studies of Visualization in the Social Sciences, AGOCG, Technical Report Series ISSN 1356-9066, no.43, September, pp. 177-184.
- [73] 1997 'Collaborative Learning and Social Interaction in Multi-User Virtual Environments', with Ruth Crawley, in Mike Bevan (ed.), Proceedings - Virtual Reality in Education and Training VRET'97, Loughborough June 24-6, pp.131-8.
- [74] 1994 'Virtual Reality and the Future of Interactive Games', with Bryan Cleal and Warren Giles, in Virtual Reality '94: Anwendungen und Trends (Berlin: Springer), February, pp.377-391.

- [75] 1994 'Inside the Worlds of Cyberspace: A Sociological Typology of Virtual Realities and their Social Contexts' in Huw Jones, John Vince and Rae Earnshaw (eds) *Virtual Reality Applications Proceedings of the British Computer Society Displays Group Conference*, June, pp.1-11.
- [76] 1994 'La Réalité Virtuelle et L'Avenir des Jeux Interactives', with Warren Giles, in *Interface to Real and Virtual Worlds* (Paris: EC2), February, pp.217-230.
- [77] 1994 'Virtual Reality im Sprachunterricht für Lernbehinderte', with Bryan Cleal and Warren Giles, in *Virtual Reality '94: Anwendungen und Trends* (Berlin: Springer), February, pp.227-240.
- [78] 1993 'Virtual Reality in Education: Some Preliminary Social Science Perspectives', with Bryan Cleal and Warren Giles, in *Interface to Real and Virtual Worlds* (Paris: EC2), February, pp.147-158.
- [79] 1993 'Virtual Reality: Social Impacts and Cultural Dimensions' in *Virtual Reality '93 - Trends and Applications* (London: Meckler), January, pp.7-14.
- [80] 1993 'Virtual Reality im Unterricht: Eine Sozialwissenschaftliche Erörterung', mit Bryan Cleal und Warren Giles, in *Virtual Reality '93 - Anwendungen und Trends* (Berlin: Springer), February, pp.101-113.

**Articles in Edited Books**

- [81] 'Technological Transformation of Research in the Sciences and Humanities' (with Eric Meyer, in William Dutton (ed.), *The Handbook of Internet Studies*, Oxford: Oxford University Press, forthcoming.
- [82] 'Collaboration in Virtual Environments: How Copresence, Immersiveness and Technology Shape Interaction', (with Anthony Steed) In Mel Slater (ed). *Handbook of Virtual Environments*, Cambridge, MIT Press (forthcoming).
- [83] 2010 'Open Science and e-Science', with Matthijs den Besten and Paul David, forthcoming In William Dutton and Paul Jeffreys (eds), *World Wide Research*. (Cambridge: MIT Press), pp.299-316.
- [84] 2010 'Disciplinary Differences in e-Research', with Jenny Fry, forthcoming In William Dutton and Paul Jeffreys (eds), *World Wide Research*. (Cambridge: MIT Press), pp. 257-71.
- [85] 2009 'Science, Technology and Globalization', forthcoming in Hans-Peter Ohly (ed), *Globalisierung*, pp.283-97.
- [86] 2009 'Open Science and Collaborative Research in e-Science: Realities of information access policies and practices at the project level', with M.den Besten and P.David, in J.Hunsiger (ed), *Handbook of Internet Research*, London: Springer, pp.65-96.
- [87] 2009 'Probing Collaborative Activity among e-Science Projects in the UK', with J.Fry, M.den Besten and R. Ackland, in Anandarajan & Anandarajan (eds.), *E-Research Collaboration: Frameworks, Tools and Techniques*.
- [88] 2009 'Towards a Sociology of e-Research: Shaping Practice and Advancing Knowledge', with J.Fry, in N.Jankowski (ed), *e-Research: Transformation in Scholarly Practice*, New York: Routledge, pp.35-53.
- [89] 2008 'Research Uses of Multi-User Virtual Environments', with Jeremy Bailenson. In Raymond Lee, Nigel Fielding and Grant Blank (eds), *The SAGE Handbook of Online Research*. London: Sage, 327-42.
- [90] 2008 'Search Engines and Expertise about Global Issues: Well-defined Territory or Undomesticated Wilderness?', with Jenny Fry and Shefali Virkar. In Amanda Spink and Michael Zimmer (eds), *Web Search: Multidisciplinary Perspectives*, London: Springer, 255-75.

- [91] 2008 'The Ethics of Internet Research', with Jenny Fry and Rebecca Eynon. In Raymond Lee, Nigel Fielding and Grant Blank (eds), *The SAGE Handbook of Online Research*. London: Sage, 23-41.
- [92] 2007 'Michael Mann', in Rob Stones (ed), *Key Sociological Thinkers*, Basingstoke: Palgrave Macmillan, 338-354.
- [93] 2006 'Introduction: The IEMP Model and its Critics' in Ralph Schroeder and John Hall (eds), *An Anatomy of Power: Michael Mann's Social Theory*. Cambridge: Cambridge University Press, pp.1-16.
- [94] 2006 'Avatars at Work and Play: Overlapping Themes and Intersecting Research Agendas', with Ann-Sofie Axelsson, in Ralph Schroeder and Ann-Sofie Axelsson (eds), *Avatars at Work and Play: Collaboration and Interaction in Shared Virtual Environments*. London: Springer, pp. ix-xv.
- [95] 2006 Entries on 'Rationality, Rationalization and Rationalism' and 'Ernest Gellner' in *The Routledge Encyclopedia of Social Theory*, Austin Harrington, Barbara Marshall and Hans-Peter Muller (eds), pp.218, 495-97
- [96] 2006 'The Good Inequality: Supporting Group Work in Shared Virtual Environments', with Maria Spante and Ann-Sofie Axelsson, in Ralph Schroeder and Ann-Sofie Axelsson (eds), *Avatars at Work and Play: Collaboration and Interaction in Shared Virtual Environments*. London: Springer, pp.151-166.
- [97] 2006 'Interaction Fragments influencing Collaboration in Distributed Virtual Environments', with Ilona Heldal, Lars Brathe and Anthony Steed, in Ralph Schroeder and Ann-Sofie Axelsson (eds), *Avatars at Work and Play: Collaboration and Interaction in Shared Virtual Environments*. London: Springer, pp.97-130.
- [98] 2002 'Preface' in Ralph Schroeder (ed), *The Social Life of Avatars: Presence and Interaction in Shared Virtual Environments*, (London: Springer), pp.ix-xiv.
- [99] 2002 'Social Interaction in Virtual Environments: Key Issues, Common Themes, and a Framework for Research' in Ralph Schroeder (ed), *The Social Life of Avatars: Presence and Interaction in Shared Virtual Environments*, (London: Springer), pp.1-18.
- [100] 2002 'The Long-term Uses of Shared Virtual Environments: An Exploratory Study', with Alexander Nilsson, Ilona Heldal, and Ann-Sofie Axelsson, in Ralph Schroeder (ed), *The Social Life of Avatars: Presence and Interaction in Shared Virtual Environments*, (London: Springer), pp.112-126.
- [101] 1999 'Rethinking Nationalism in the Context of Globalization' in Kevin Brehony (ed) *Nationalisms Old and New*. (Basingstoke: Macmillan), pp. 70-86.
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