

CURRICULUM VITAE: MARK SWILLING

PERSONAL DETAILS

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Personal website: <http://markswilling.co.za/>
Centre for Complex Systems in Transition: <http://www0.sun.ac.za/cst/>
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Current Position: Distinguished Professor of Sustainable Development in the School of Public Leadership, University of Stellenbosch (Division Head: Sustainable Development); Academic Director of the Sustainability Institute, and Co-Director of the Stellenbosch Centre for Complex Systems in Transition.

Summary: I am primarily interested in the dynamics of transition from a systems perspective. The focus of my early career was transitions to democracy and urban transitions, but since 2003 my focus has been on 'just transitions' to a more equitable and sustainable world. This involves a synthesis of political ecology, political economy and complex adaptive systems within a wider metatheoretical framework drawn from integral theory, complexity theory and critical realism. Since 2012 I have been particularly interested in a theory of change that is appropriate for our times, more specifically whether incrementalism can be an adequate alternative to traditional conceptions of reform and revolution.

ACADEMIC QUALIFICATIONS

Ph.d, Department of Sociology, University of Warwick, United Kingdom, 1994.
Thesis title: "Urban Control and the Changing Forms of Political Conflict in the Eastern Cape, South Africa, with special reference to Uitenhage, 1979-1986".

Bachelor of Arts Honours, Department of Political Studies, University of the Witwatersrand, 1982-83. Thesis title: "Umzabalazo Wabasebenzi: Working Class Politics in Germiston, 1979-1982".

Bachelor of Arts, University of the Witwatersrand, 1978-1981. Areas of study: political studies, industrial sociology, philosophy and African politics.

Secondary Schooling, Woodmead School, Johannesburg, 1973-1977.

Primary Schooling, Waldorf School (based on Rudolph Steiner's philosophies), Johannesburg, 1966-1972.

ACADEMIC DISTINCTIONS/FELLOWSHIPS/AWARDS

Edward P. Bass Distinguished Visiting Environmental Scholar, Yale Institute for Biospheric Studies and Associate Research Scholar in the Yale School of Forestry and Environmental Studies, March – October 2018.

Runner-up in the Harold and Margaret Sprout Award in 2013 for best book in the global environmental governance field for the publication *Just Transitions: Explorations of Sustainability in an Unfair World*.

Stellenbosch University Rector's Award for General Performance for 2011, 2012 and 2013.

Aspen Institute Faculty Pioneer Award for best global contribution to including sustainability in leadership education, 2010

Ashoka Fellowship for Public Innovators, 1993-94.

United States Information Service International Visitor Fellowship, 1990.

Fullbright Scholarship for Study in the United States of America, 1989/90. (For reasons related to ill health and inadequate finance, this award could not be accepted.)

British Council Scholarship for Study in the United Kingdom, 1988/89.

Bursary from the Human Sciences Research Council for study for a Masters of Arts at the University of the Witwatersrand, 1987.

Merit Award from the University of the Witwatersrand for completing the BA Honours degree with a First Class pass and with the highest score of that year, 1983.

Bursary from the Human Sciences Research Council for study for the BA Honours degree, 1982.

ACADEMIC AND PROFESSIONAL EXPERIENCE

1. Employment:

August 2002 – present: Professor of Sustainable Development (and Distinguished Professor from 2014 -), School of Public Leadership, University of

Stellenbosch; Co-Director of the Centre for Complex Systems in Transition (from 2016 -); and Academic Director of the Sustainability Institute (2000 -);

May 1998 – December 2001: Executive Director, Spier Holdings (Pty) Ltd., Stellenbosch.

October 1993 – April 1998: initially appointed as Senior Lecturer and then as Director of the Graduate School of Public and Development Management, University of the Witwatersrand, then from January 1996 appointed as Professor of Public and Development Management and continued as Director until December 1997, and as Professor until April 1998.

October 1990 - September 1993: Project Worker, PLANACT. Duties included overall planning and management of the organisation in various capacities; coordination of macro- and micro-level research projects; training, design and implementation of comprehensive 'organisational development' programmes with and for numerous community-based organisations in the Gauteng, Eastern Transvaal, North West and Eastern Cape Provinces; participation in numerous negotiation forums involved in comprehensive urban reconstruction processes; participation in a number of physical implementation projects aimed at providing housing and employment for the urban poor in North West Province, Eastern Cape and Central Witwatersrand region; participation in and supervision of large-scale policy research projects funded by the Central Witwatersrand Metropolitan Chamber (precursor to the current Johannesburg Metropolitan Government).

January 1988 - October 1990: Research Officer, Centre for Policy Studies, University of the Witwatersrand. Main duties included the coordination of a large-scale research project on the Apartheid State's security and reform strategies in the 1980s/early 1990s, public policy analysis, and consultancy.

January 1984 - December 1987: Lecturer, Department of Political Studies, University of the Witwatersrand.

June - December 1983: Junior Lecturer, Department of Political Studies, University of Natal, Durban.

2. Lecturing Experience:

The following graduate and post-graduate courses were delivered in various institutions since 1982:

- Soviet politics from Lenin to Gorbachev (1980s)
- African nationalist movements (Algeria, Zimbabwe, Kenya, Mozambique, Ethiopia) (1980s)

post-colonial development problems in Africa (Mozambique, Kenya, Nigeria, Zambia, Tanzania and Namibia) (1980s)

- urbanization and urban politics in developing countries (1990s)

- theories of state and class (1980s)
- governance and management (1990s)
- urban governance and management (1990s)
- public policy management (1990s)
- social and systems theory (1990s)
- sustainable development (since 2003)
- sustainable cities (since 2003)
- ecological design for community building (since 2003)
- globalisation, governance and civil society (since 2003)
- South African political economy (since 2016)

Guest lectures:

- Chinese Academy of Science, April 2007
- University of Freiburg, October 2009
- Stockholm Resilience Centre, May 2012
- Utrecht University, October 2012, October 2013, November 2016
- Sheffield University, May 2016
- University of Tokyo, June 2015
- Yale University, June 2018

3. Major Research-based Consulting Projects

Green Economy Tool-Kit: commissioned by UNEP Africa Regional Office, working with five African governments – Kenya, Rwanda, Ghana, Mozambique and Ethiopia, 2015-2016.

Greening Cities in Africa: paper commissioned by the United Nations Economic Commission for Africa, Addis Ababa, 2015-2016.

Member of the Panel of Experts appointed by the Minister of Cooperative Governance and Traditional Affairs to draft the Integrated Urban Development Framework and lead researcher for the background paper on Urban Infrastructure, 2013-2014.

Coordinator of research team appointed by Stellenbosch Municipality to compile the Stellenbosch Spatial Development Framework, 2013-5.

Cape Town Urban Resource Flows: funded by the United Nations Development Programme and CORDAID (Holland), main aim was to develop a policy, technical, financial and institutional model for the sustainable use and consumption of energy, water, sanitation and waste in Cape Town. Project funding: R3 million. Completed October 2008.

Lead research co-ordinator for the compilation of the Stellenbosch Sustainable Human Settlement Strategy, completed September 2008.

Primary author of the *iKapa Provincial Growth and Development Strategy* commissioned by the Provincial Government of the Western Cape, 2007.

Primary author of the Western Cape Strategy for Sustainable Human Settlements commissioned by the Provincial Government of the Western Cape, 2007.

Strategic Plan for Oude Molen, Pinelands; Department of Public Works, Western Cape Provincial Government, 2005 - ongoing.

Member of Expert Team contracted by the Department of Environmental Affairs and Tourism to manage contract research and draft the National Sustainable Development Strategy for South Africa. This included acting as Convenor of the National Academic Review Panel, 2005-2006.

Western Cape Sustainable Development Implementation Plan, Department of Environment and Development Planning Western Cape Provincial Government, 2005.

Social Giving Project, Centre for Civil Society Studies, University of Natal, 2003-2004. Project leader, state expenditure on poverty eradication.

Cape Town 2025: 2000. Coordinated by the Isandla Institute on behalf of Cape Town City Council: project leader, scenarios for the future development of infrastructure for the City of Cape Town, and consequences for lifestyles of Capetonians.

Lynedoch Development Company, 1999-2004: design, funding and project management of the development of the Lynedoch EcoVillage.

Spier Group of companies, 1998-2002: strategic planning, financial modelling, corporate funding, and business operations in the tourism, agriculture, property development, waste management and plastic moulding fields.

Warwick Business School, 1999: Curriculum and organisational design of the Masters in Public Administration and strategic planning for the establishment of the Warwick Institute for Governance and Public Management.

South African Local Government Association, 1997-98: strategic and business planning.

Department of Constitutional Development and Parliamentary Portfolio Committee on Constitutional Affairs, SA Government, 1997: policy research on local government political systems.

Office of the Premier, East Cape Government, 1996: development planning for regional development.

Department of Public Service and Administration, SA Government, 1996-97: drafting of Green Paper on Public Sector Training and Education.

Presidential Review Commission into the Public Service, November 1996-September 1997: Member of the Structures and Functions Task Team with responsibility for analysis of Mpumalanga, Gauteng and Northwest Provincial Governments.

Southern, Northern and Western Metropolitan Sub-Structures of the Greater Johannesburg Transitional Metropolitan Council, January-February 1996: strategic planning.

Mpumalanga Government, 1995-1996: development of a strategic development plan for Mpumalanga Province and supporting developing planning systems and capacity.

Department of Land Affairs, SA Government, 1995: change management and institutional transformation.

Department of Development Planning and Environment, Gauteng Provincial Government, 1994-1995: Member of the Strategic Management Team responsible for strategic management of policy development and institutional transformation.

Community Bank, 1993-94: member of the founding group of South Africa's first large-scale non-profit community-owned bank. This involved extensive research into the existing problems with the mainstream banking movement and financial services for the urban poor, plus participation in organisational design, institutional development and strategic planning.

Urban Foundation, 1985-87: Urban policy and local government reform based on 30 local case studies.

4. Major Academic and Applied Research Activities:

Member of the International Network on Urban Low Carbon Transitions convened by Durham University, funded by ESRC, 2014-2016.

Member of the Holcim Foundation's *Re-materializing Construction* global research team, 2014 – ongoing. Annual meetings have taken place at MIT (Boston) in 2014, Zurich in 2015 and Detroit in 2016.

Project Co-Director of the New Economic Theory initiative, World Academy of Art and Science, 2015 - ongoing.

Project Leader of the Stellenbosch University Community Engagement Programme on incremental upgrading of informal settlements, 2011-2015. Multi-year programme of research by postgraduate students funded by the National Research Foundation (R2.6 million over 5 years) which, in turn, generated solutions that were then funded by the Bill and Melinda Gates Foundation and the Green Fund.

UN Habitat, 2010 – 2012: Project Leader of the compilation of 4 so-called Quick Guides to translate UN Habitat perspectives on sustainable urban development into usable materials for policymakers.

International Resource Panel, United Nations Environment Programme, 2007 - ongoing. Collaborations to produce reports on global material flows and decoupling, global land and soil resources, and Coordinator of Cities Working (details for all these reports provided below).

Global Initiative for Resource Efficient Cities convened by the United Nations Environment Programme, 2012 – ongoing. Various reports and stakeholder engagement processes aimed at developing a resource efficiency toolkit for use by local governments in various parts of the world.

Lynedoch EcoVillage Development, Stellenbosch, 1999-2005. Applied research and project management including urban design framework, technical designs of infrastructure and housing options, governance arrangements, design and packaging of development finance. Project funding: R4,5 million.

Africa Human Genome Initiative, 2003: Co-Convenor, with Dr. Wilmot James of the Human Sciences Research Council and Professor Gewers of the Academy of Sciences of Southern Africa, of the International Conference on the Human Genome in Africa, Spier Estate, Stellenbosch, South Africa, 20-23 March, 2003.

Johns Hopkins International Study of the Non-Profit Sector, 1997-99. South African Project Co-Ordinator. Project funds: R300 000. Various publications.

Global Urban Research Initiative, 1992-1996: Southern African Co-Ordinator, studies of urban governance in Southern African cities and publication of a book entitled *Governing Africa's Cities* published in 1997 by Witwatersrand University Press.

Central Witwatersrand Metropolitan Chamber, 1989-1994: involvement in the coordination of large-scale urban research projects conducted under the auspices of the Central Witwatersrand Metropolitan Chamber. These projects included metropolitan land-use and spatial planning, housing policy, bulk provision of water and sanitation, institutional and service dimensions of the water and sanitation system, transportation, the restructuring of local government administration in accordance with new management philosophies, constitutional

modeling, reorganisation of local and metropolitan fiscal management and systems, electricity, local economic development planning, and the initiation and establishment of local-level housing projects.

Centre for Policy Studies, University of the Witwatersrand, 1988-1990:
Coordinator of State Structures and Strategies Project that examined the inner workings of the apartheid state at central and local level.

SERVICE TO THE COMMUNITY, ACADEMIC PROFESSION AND PRIVATE SECTOR

1. Community

Member of the Curatorial team for the 2016 International Architecture Biennale Rotterdam (IABR).

Non-Executive Director of the Development Bank of Southern Africa (South Africa's largest Government-owned bank focussed on infrastructure investments), appointed for a three year term starting in 2014, and a second three year term starting in 2017, and as from 1 January 2019 appointed as Chairperson of the Board.

Member of the Curatorial Panel of the World Design Capital 2014, appointed in March 2013 to judge applications for participation in the exhibition.

Member of the Cape Higher Education Consortium (CHEC) team working in partnership with Western Cape Provincial Government on urban regeneration, 2010 – ongoing. In February 2013 appointed as Chairperson of the Green Precincts Theme of the joint University-Government Climate Change Working Group convened CHEC.

Member of the Stellenbosch Rector-Mayor Forum, including a member of the Stellenbosch Infrastructure Task Team and Integrated Planning Committee, 2005 – present.

Member of the Advisory Board, Green Cape, Section 21 company established by Western Cape Provincial Government, 2011 – 2016.

Member of the Board of Directors, uTshani Fund, Section 21 company, major housing finance agent in the affordable housing field, 2005 – 2011.

Sustainability Institute and the Lynedoch Development: co-founder of the Sustainability Institute (which is a non-profit educational trust) and the Lynedoch Development company (Section 21 company) - these NGOs lead the non-profit development known as the Lynedoch EcoVillage, 1999 – present.

Member of the Gauteng Development Tribunal, 1996-1999: approved development projects within the framework of zoning and planning laws.

Chairperson of the Gauteng Government's Land Development Objectives Assessment Panel which reviewed the five year development plans of all Local Governments in the Gauteng Province, 1997.

Member of the Review Advisory Panel for the Sustainable Communities Programmes, Development Bank of Southern Africa, 2007 – ongoing.

One of eight experts selected to serve on the Review Advisory Group on Safeguard Standards convened by the Office of the President of the World Bank's International Finance Corporation (IFC), 2000-2001.

PLANACT: a technical assistance and policy advocacy NGO that began in 1985. Co-founder; Treasurer of the Executive Committee, 1986-88; Chairperson of the Executive Committee, 1988-89; employed full-time staff member, 1990-1993; Chairperson of the Board, 1997-98, member of the Board, 1998-2000.

Development Resource Centre: member of the Board, 1999-2002. An NGO that provided management and organisational development services to other development NGOs.

African Research Network for Urban Management, 1995 - 1998: member of the Steering Committee and Secretary of the Executive Committee, 1997-98.

Member of the Board of Trustees of the Group for Environmental Monitoring, 1990-1996.

2. Academic Profession

Fellow of the World Academy of Art and Science, 2015 – ongoing.

Member of the World University Consortium affiliated to the World Academy of Art and Science, 2015 – ongoing.

Member of the Future Earth Africa Committee, 2013 – 2014.

Member of the International Scientific Committee for the 19th Annual International Sustainable Development Conference, Stellenbosch, 1-3 July 2013.

Invited to participate as a 'Leading Thinker' in the World Social Science Fellows Programme on Sustainable Urbanization convened by the International Social Science Council (ISSC), 2013-2014 (including participation in the fellows programme in Quito, 25-31 March 2013).

Member of Expert Group on Science and Sustainable Development Goals convened by United Nations Department of Economic and Social Affairs, International Social Science Council and International Council for Science, UN Headquarters, New York, 20-21 March, 2013.

Member of the Joint Content Committee of the *South Africa-German Science for Sustainability Dialogue* convened by the Department of Science and Technology, South African Government, 2010-2012.

Member of the Scientific Committee for the 17th Annual International Sustainable Development Research Conference, Columbia University, May 2011.

Member of the Advisory Board of the Maastricht University Graduate School of Sustainability Science (MUST), Maastricht, The Netherlands, 2010 - present.

Member of the International Review Panel for the 11th Biennial Conference of the International Society for Ecological Economics (ISEE): *Advancing Sustainability in a Time of Crisis*, 2009-2010.

Member of the *International Resource Panel*, convened by the United Nations Environment Programme, Co-Chaired by Prof. Ernst Von Weizsacker (Germany) and Ashok Khosla (India) . Member of the following Working Groups: Decoupling; Land and Soil Resources; and Coordinator of the Cities Working Group, 2007 – ongoing.

Project Leader of the TSAMA Hub, Stellenbosch University – multi-faculty initiative to facilitate the transdisciplinary study of sustainability.

Founding member of the Centre for Renewable and Sustainable Energy Studies, Stellenbosch University.

Graduate School of Public and Development Management in the Faculty of Management, University of the Witwatersrand: Co-founder of the School in 1991-2, Acting Director and then Director, 1994 - 1997.

Founding member of the Joint Public Management Educational Trust (JUPMET) and member of the Board until end of 1997 - JUPMET's aim is to mobilise donor funds to support the development of public management education and training in tertiary institutions in South Africa.

Member of the Review Advisory Panel for the Built Environment Programme, CSIR, 2006 – 2009.

Membership of Editorial Boards: *Leadership* (UK), 2004 – ; *Journal of International Politics and Development* (JIPAD) (USA), 2008 – ; *Environmental Research Letters*, 2014 - 2016; *Anthropocene*, 2013 - ; *Journal of Environmental Policy and Planning* (The Netherlands), 2017 - .

Association of Sociology of Southern Africa (ASSA), 1984-1991: member and Working Group Coordinator, member of the editorial board of the *South African Sociological Review*, 1987-90.

3. Private Sector

Member of the Board of Directors, Philipi Business Place, Section 21 company, managed the development of a 10 ha site in Philipi that links entrepreneurialism, sustainability, housing and urban agriculture, 2005 – 2009.

Executive Director, Spier Holdings (Pty) Ltd., development company that facilitated the development of Spier Wine Estate, 1999-2002.

Member of the Board of Directors, Lomold Group of Companies, R&D venture capital company in the plastic manufacturing and recycling sector with global operations, 2001-2015.

SUPERVISION AND EXAMINATION OF HIGHER DEGREES

Supervision of Masters Degrees:

de la Harpe, J. 1996. *An Analysis of the Governance of Environmental Management*, Masters Research Report, University of the Witwatersrand.

Wenzel, P. 1996. *Participatory Development Planning and Democratic Governance*, Masters Research Report, University of the Witwatersrand.

Groeblinghof, B. 1997. *International Donors in Democratic South Africa: A Comparative Case Study*, Masters Research Report, University of the Witwatersrand.

Jennings, R. 1997. *The Development of a Youth Policy for the Gauteng Legislature*, Masters Research Report, University of the Witwatersrand.

Latib, S. 1996. *Policy and Management Implications of Local Governance*, Masters Research Report, University of the Witwatersrand.

Letsoalo, A. 1996. *Reconstruction, Participation and Development in Community Development Forums*, Masters Research Report, University of the Witwatersrand.

Rust, K. 1998. *Civil Society Participation in the Housing Process, 1991-1996*, Masters Research Report, University of the Witwatersrand.

- Harrison, K. 1998. *Policy Interaction Between the State and Extra-Governmental Organisations*, Masters Research Report, University of the Witwatersrand.
- Phillips, S. 1997. *A Case Study of Organisation Design and Development in the Gauteng Provincial Government*, Masters Research Report, University of the Witwatersrand.
- Mokaba, P. 1998. *Structural and Institutional Challenges for Environmental Management with Special Reference to Inter-Ministerial Co-Ordination*, Masters Research Report, University of the Witwatersrand.
- Jardine, C.J., 1998. *Trade Union Responses to State Enterprise Restructuring and Privatisation*, Masters Research Report, University of the Witwatersrand.
- Tesfamariam, B. 2003. *Assessing the Sustainability of Saving and Micro-Credit Program (SMCO) in Eritrea*, Submission in partial fulfillment (50%) of Mphil in Sustainable Development Planning and Management, University of Stellenbosch.
- Robertson, R., 2003. *Organic Farming: the way forward for Sustainable Agriculture in the Western Cape Province*, submission in partial fulfillment (50%) of MPhil in Sustainable Development Planning and Management, University of Stellenbosch.
- Mulusa, L. 2005. *The Impact of South African Firms on the Liberalised Zambian Economy*, submission in partial fulfillment (50%) of Mphil in Sustainable Development Planning and Management, Stellenbosch University.
- Bullock, S. 2009. *Project Proposal: Anglo Platinum Sustainable Development Reporting: Making the Switch from Using the GRI's G3 Guideline to Using the G3 Guideline*, submission in partial fulfillment (50%) of MPhil in Sustainable Development Planning and Management, Stellenbosch University.
- Cohen, P. 2009. *Design for Sustainable Communities: An Integral Perspective*, submission in partial fulfillment (50%) of MPhil in Sustainable Development Planning and Management, Stellenbosch University.
- Smit, G. 2009. *Sustainable energy solutions for the residences of Stellenbosch University*, thesis submitted (100%) in fulfillment of the requirements of the MPhil in Sustainable Development Planning and Management, Stellenbosch University.
- Wescott, H. 2009. *Individual philanthropy in post-apartheid South Africa: Prospects for developing an ethos of responsibility for supporting and nurturing civil society*, thesis submitted (100%) in fulfillment of the

requirements of the MPhil in Sustainable Development Planning and Management, Stellenbosch University.

Rosmarin, T. 2009. *Community-driven Educational and Training Model for Sustainable Community Development Resulting in Socio-Economic Upliftment in the Western Soutpansberg*, submission in partial fulfillment (50%) of MPhil in Sustainable Development Planning and Management, Stellenbosch University.

Mokheseng, B. 2010. *Solar Roof Tiles: Towards a Macro-Economic Model*, submission in fulfillment of Mphil in Sustainable Development Planning and Management (100% thesis), Stellenbosch University. (Co-supervised by Prof. Allan Brent)

Nyabadza, C. 2012. *Overcoming Energy Constraints on Future Development in Stellenbosch through Energy Efficiency: Retrofitting of Solar Water Heaters and Gas Stoves in the Residential Sector*, submission in fulfillment of Mphil in Sustainable Development Planning and Management (100% thesis option), Stellenbosch University.

Gosa, T. 2012. *Sustainable Energy and Policy Design on the Energy Transition to Renewable Energy Systems in Stellenbosch*, submission in fulfillment of Mphil in Sustainable Development Planning and Management (100% thesis option), Stellenbosch.

Hyman, K. 2011. *Economic Development, Decoupling and Urban Infrastructure: the role of innovation in urban transitions in Cape Town*, submission in fulfillment of Mphil in Sustainable Development Planning and Management (100% thesis), Stellenbosch University.

Schafler, A. 2011. *Adaptive Cities: Creating resilience between people and nature in urban landscapes*, submission in fulfillment of Mphil in Sustainable Development Planning and Management (100% thesis), Stellenbosch University, submitted for examination.

Robinson. B. 2010. *Decoupling Infrastructure Services from Unsustainable Resource Use: Cases from Cape Town*, submission in fulfillment of Mphil in Sustainable Development Planning and Management (100% thesis), Stellenbosch University.

Brent, A. 2012. An investigation into the challenges of transdisciplinary R&D: Values, culture and the case of the BIOSAM project. Mphil in Sustainable Development Planning and Management (100% thesis – 2 journal articles), School of Public Leadership, Stellenbosch University.

Moody, M. 2011. The case for transition to a sustainable transport system in Stellenbosch. Mphil in Sustainable Development Planning and Management (100% thesis), School of Public Leadership, Stellenbosch University,

Keller, A. 2012. Conceptualising a sustainable energy solution for in situ informal settlement upgrading. Mphil in Sustainable Development Planning and Management (100% thesis), School of Public Leadership, Stellenbosch University.

Hattingh, E. Career Opportunities for Graduates in Sustainability Fields. Mphil in Sustainable Development (100% thesis), School of Public Leadership, Stellenbosch University. 2011 – 2014.

Wessels, B. A socio-technical approach to incremental upgrading: Implementing solar PV DC microgrids in informal settlements. Mphil in Sustainable Development (80% thesis, 20% course work), School of Public Leadership, Stellenbosch University, 2012 - .

von der Heyde, V. 2014. Solid Waste Management in an Informal Settlement: the influence of waste perceptions on the effectiveness of waste management, Mphil in Sustainable Development (80% thesis, 20% course work), School of Public Leadership, Stellenbosch University.

Mentz, M. 2013. Coupling livelihood to ecosystems by investing in appropriate design, diversification and careful management of available resources. Mphil in Sustainable Development (80% thesis, 20% course work), School of Public Leadership, Stellenbosch University.

Huber, M. Development and Extractive Industries in Africa, Mphil in Sustainable Development (80% thesis, 20% course work), School of Public Leadership, Stellenbosch University, 2014.

Lefront, C. Women, the Solderarity Economy and Alternative Currencies, Mphil in Sustainable Development (80% thesis, 20% course work), School of Public Leadership, Stellenbosch University, 2013 -

Malulu, C. Sustainable Urban Drainage in Informal Settlements: Case Study of Enkanini, Stellenbosch. Mphil in Sustainable Development (80% thesis, 20% course work), Stellenbosch University, 2013 –

Mollat, C. 2014. Waste and Food Security in Informal Settlements. Mphil in Sustainable Development (80% thesis, 20% course work), School of Public Leadership, Stellenbosch University.

Radmore, J. 2015. Corporate Citizenship and Incremental Upgrading in Stellenbosch: A Case Study. Mphil in Sustainable Development (80% thesis, 20% course work), School of Public Leadership, Stellenbosch University.

Baek, I. 2015. Critical Analysis of the Smart City Agenda: Case Study of Songdo, South Korea. Mphil in Sustainable Development (80% thesis, 20% course work), School of Public Leadership, Stellenbosch University.

Davies, M. 2016. Sustainability-Oriented Innovation and Urban Infrastructure Planning in Stellenbosch. Mphil in Sustainable Development (80% thesis, 20% course work), School of Public Leadership, Stellenbosch University.

Du Plessis, J. 2016. Resource Management and Sustainable Development in Africa. Mphil in Sustainable Development (80% thesis, 20% course work), School of Public Leadership, Stellenbosch University.

Wolfaardt, G. 2016. A Case Study of Transdisciplinarity and Biomimicry: The Restoration of Water Systems Using Eco-Machines within the Informal Berg River Community. Mphil in Sustainable Development (80% thesis, 20% course work), School of Public Leadership, Stellenbosch University.

Mafame, T. 2017. Transit-oriented development (TOD) as a facilitator for urban development integration: Case study of du Toit station precinct, Stellenbosch. Thesis in fulfilment of a Mphil in Sustainable Development, School of Public Leadership, Stellenbosch University.

Woolls-King, M.H. 2017. Innovation for transition to a circular economy: a transdisciplinary case study at Distell. Thesis in fulfilment of a Mphil in Sustainable Development, School of Public Leadership, Stellenbosch University.

Henshilwood, E. 2018. Exploring sustainable urban automobility transitions: a transdisciplinary inquiry into the case of an isolated enclave in Cape Town. Thesis in fulfilment of a Mphil in Sustainable Development, School of Public Leadership, Stellenbosch University. (Co-supervisor with M. Naidoo)

Mooney, H. 2018. Renewable energy mega-projects in Sub-Saharan Africa: Exploring the relationship between deliberative democracy and mediation of conflict over land. Thesis in fulfilment of a Mphil in Sustainable Development, School of Public Leadership, Stellenbosch University. (Co-supervisor with Holle Wlokas)

Pylipow, J. 2018. Facilitating cooperation in transdisciplinary research and evaluating its role in Sensemaker for a developing world context. Thesis in fulfilment of a Mphil in Sustainable Development, School of Public Leadership, Stellenbosch University. (Co-supervisor with J. van Breda)

Stuurman, F. 2018. Does the South Africa renewable energy programme exclude Black woman-owned businesses? Thesis in fulfilment of a Mphil in Sustainable Development, School of Public Leadership, Stellenbosch University. (Co-supervisor with Holle Wlokas)

Bloem, S. 2019. Assessing the sustainable infrastructure of a low carbon community: Lynedoch EcoVillage Case Study. Thesis in fulfilment of a Mphil in Sustainable Development, School of Public Leadership, Stellenbosch University. (Co-supervisor with Ben Sebitosi)

Foley, R. 2019. Neopatrimonialism and State Capture: the case of the South African Social Security Agency. Thesis in fulfilment of a Mphil in Sustainable Development, School of Public Leadership, Stellenbosch University.

Morar, J. 2019. The development impact of the Renewable Energy Independent Power Producers Procurement Programme on South Africa's small towns. Thesis in fulfilment of a Mphil in Sustainable Development, School of Public Leadership, Stellenbosch University.

Swartz, K. 2019. Addressing community energy challenges with utility-scale renewables: a case study of Hopefield Wind Farm. Thesis in fulfilment of a Mphil in Sustainable Development, School of Public Leadership, Stellenbosch University.

Zelege, M. 2019. The role of Sacred National Sites (SNS) and related traditional ecological governance systems and their legal recognition to enhance community well-being and resilience. Thesis in fulfilment of a Mphil in Sustainable Development, School of Public Leadership, Stellenbosch University.

Supervision of Doctoral Degrees:

Goldman, I., 1999. Managing Rural Change: Managing Rural Change in the Free State, South Africa. Doctoral thesis, Graduate School of Public and Development Management, University of the Witwatersrand.

Mahlali, V. 2011. *Rural Development and the Economic Potential of Value Chains*. Doctoral thesis, School of Public Leadership, University of Stellenbosch.

Swartz, M. 2010. Restoring and holding onto beauty: the role of aesthetic relational values in sustainable development. Doctoral thesis, School of Public Leadership, Stellenbosch University.

Khan, F. 2010. Critical perspectives on post-apartheid housing praxis through the developmental statecraft looking glass. Doctoral thesis, School of Public Leadership, University of Stellenbosch.

Muller, A. *Spatial and Development Planning Policy and Land-use Management*, Doctoral thesis, School of Public Leadership, University of Stellenbosch, 2004 - .

Yachkaschi, S. 2008. *Towards the Development of an Appropriate Organisational Development Approach for Optimising the Capacity Building of*

Community-Based Organisations (CBOs): A Case Study of Three CBOs in the Western Cape. Doctoral thesis, School of Public Leadership, University of Stellenbosch.

Pahwa, S. 2012. *Building a Sustainable Carbon-Neutral Business: A Case Study of the Spier Group.* Doctoral thesis, School of Public Leadership, Stellenbosch University. (Co-supervised with A. Brent).

Wakeford, J. 2012. *Socio-economic implications of global oil depletion for South Africa: impacts and mitigation.* Doctoral thesis, School of Public Leadership, Stellenbosch University.

Tavener-Smith, L. *Economics and Governance of Water and Sanitation Infrastructure in a South African Informal Settlement: Transitions to a Livable Enkanini.* Doctoral thesis, School of Public Leadership, Stellenbosch University, 2011- (Co-supervised with Ronelle Burger)

Beyers, C. *A Study of Material Flow Analysis to Ignite Learning Processes and an Empirical Foundation to Transition to a Green Economy.* Doctoral thesis, School of Public Leadership, Stellenbosch University, 2012 – (Co-supervised with Martin de Wit)

Mavengahama, S. *The contribution of indigenous vegetables to food security and nutrition within selected sites in South Africa.* Doctoral thesis, Faculty of Agri-Sciences, Stellenbosch University, 2011 – 2013. (Co-supervisor with various others)

Ambole, L. *Co-production of knowledge for the design of on-site sanitation for informal settlements in South Africa and Kenya.* Doctoral thesis, School of Public Leadership, Stellenbosch University, 2013 – 2016. (Co-supervised with Mugendi M'Rithaa)

Van Zyl, A. *Embedding sustainability practices into organisations through Integrated Reporting.* Doctoral thesis, School of Public Leadership, Stellenbosch University, 2013 - .

Rosenberg, L. *Short(er) supply chains and subjective well-being: Connecting coffee drinkers and coffee farmers in Kayanza, Burundi.* Doctoral thesis, School of Public Leadership, Stellenbosch University, 2013 - 2017. (Co-supervised with Walter Vermeulen)

Shumuye, M. *The role of the developmental state in Northern Ethiopia's Raya Valley Groundwater Irrigation Project: An Institutional Economics Perspective.* Doctoral Thesis, School of Public Leadership, Stellenbosch University, 2013 – (Co-supervisor with Firoz Khan)

Acheampong, E. Sustainable Urban Water Resources Management in Accra, Ghana. Doctoral thesis, School of Public Leadership, Stellenbosch University, 2013 – ongoing.

Simiyu, S. Housing Decision-Making and Valuation of Sanitation in the Informal Settlements of Kisumu, Kenya. Doctoral thesis, School of Public Leadership, Stellenbosch University, 2013 – 2016. (Co-supervisor with various others)

Taurayi, S. Use of soil organic amendments in vegetable production under smallholder farming systems in Southern Africa. Doctoral thesis, School of Public Leadership, Stellenbosch University, 2012 – 2016. (Co-supervisor with various others)

Davies, M. South Africa's Transition to Energy Democracy: Potentials and Limitations of the Renewable Energy Independent Power Producers Procurement Programme. Thesis in fulfillment of a PhD in Sustainable Development, School of Public Leadership, Stellenbosch University. 2016 – incomplete.

Acheampong, E. Conceptualizing an IWRM-Decoupling Nexus: Implications for Sustainable Water Resources Management. Thesis in fulfillment of a PhD in Sustainable Development, School of Public Leadership, Stellenbosch University. 2014 – incomplete. (Co-supervisor with K. Urama)

Van Zyl, A. An integrated approach to creating sustainable enterprises for the 21st century. Thesis in fulfillment of a PhD in Sustainable Development, School of Public Leadership, Stellenbosch University. 2013 – incomplete.

Gcanga, A. Water Governance in the Western Cape. Thesis in fulfillment of a PhD in Sustainable Development, School of Public Leadership, Stellenbosch University. 2017 – incomplete. (Co-supervisor with G. Wolfaart)

Appies, A. Socio-economic development in the South African Renewable Energy Independent Power Producer Procurement Programme: A transdisciplinary approach. Thesis in fulfillment of a PhD in Sustainable Development, School of Public Leadership, Stellenbosch University. 2018 – incomplete.

van Breda, J. Towards a Transdisciplinary Hermeneutics. Thesis in fulfillment of a PhD in Sustainable Development, School of Public Leadership, Stellenbosch University. 2012 – incomplete.

Tshangela, M. Overlaps in Sustainability Transitions and Policy Change: A South African Case of Green Economy Policies in the Context of Sustainable Development, 2002 – 2015. Thesis in fulfillment of a PhD in Sustainable Development, School of Public Leadership, Stellenbosch University. 2018 – incomplete.

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Abrahams, M. A. 2003. Theory-Based Evaluation of Community Development: A South African Case Study. PhD Thesis. Stellenbosch University.

Engledow, S. 2005. The Strategic Assessment of a Curbside Recycling Initiative in Cape Town as a Tool for Integrated Waste Management. Department of Environmental and Geographical Science. Cape Town, University of Cape Town. MA Thesis.

Wolde, M.A. 2005. A Critical Assessment of Institutions, Roles and Leverage in Public Policymaking: Ethiopia, 1974-2004. School of Public Management and Planning. PhD thesis. Stellenbosch, Stellenbosch University.

Van den Berckt, T. 2006. The Drive Towards Greater Accountability: Implications for South African NGOs. Graduate School of Business. MBA Research Report. Cape Town, University of Cape Town.

Beyers, C. 2007. Exploring a Sustainability Imagination: A Perspective on the Integrating and Visioning Role of Stories and Symbolism in Sustainability through an Alternative Education Case Study. School of Public Management and Planning. MPhil thesis (50%). Stellenbosch, Stellenbosch University.

Loots, M. 2007. Application of Assessment Tools in Sustainable Architecture Design Processes in South Africa. MArch Thesis. School of Architecture, University of the Witwatersrand. Johannesburg.

Vermeulen, G. 2007. From the Grave to the Cradle: Exploration of Hemp as an Eco-Design Material. MPhil thesis (50%). Faculty of Informatics and Design. Cape Town, Cape Peninsula University of Technology.

Jallow, W. 2008. The Effects of Peri-Urbanization on Sustainable Development in Gambia. School of Public Management and Planning. MPhil Thesis. Stellenbosch, Stellenbosch University.

Van Dongen, L. 2008. Thinking about escaping poverty: A critical argument analysis identifying the conceptualisation of constraints to poverty reduction implicit in the Johannesburg Human Development Strategy. MPhil thesis. Faculty of the Humanities. Cape Town, University of Cape Town.

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2. Books and Chapters in Books

2.1 Books

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Swilling, M. 2013. Contested Futures: Conceptions of the Next Long-Term Development Cycle. In McIntosh, M. (ed.) *The Necessary Transition: The Journey Towards the Sustainable Enterprise Economy*. Sheffield, UK: Greenleaf Publishing.

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Beyers, C. & Swilling, M. 2016. Economy-wide material flow accounting for the South African economy. Swilling, M., Musango, J. & Wakeford, J. *Greening the South African Economy*. Cape Town: Juta.

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Vogel, C. & Swilling, M. 2018. Climate Change and Vulnerability in South Africa: Sustainability Transitions in a Changing Climate? Mohamed, N. (ed.) *Sustainability Transitions in South Africa*. London and New York: Routledge.

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Swilling, M. Forthcoming. Long Waves and the Sustainability Transition. In: Acar, S. and Yeldan, A.E. *Handbook of Green Economics*.

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(82 contributions)

3. Conference Proceedings, Seminars and Keynote Addresses

3.1 South African Events

(with Cobbett, W., Glaser, D., Hindson, D.) "South Africa's Regional Political Economy: A Critical Analysis of Reform Strategies in the 1980s", this paper was delivered at the following conferences: 1. Association of Sociology of Southern Africa Annual Conference, University of Cape Town, July, 1985; 2. Conference on South Africa's Regional Strategy, University of the Witwatersrand, September, 1985.

"The Politics of Working Class Struggles in Katshehong, 1979-1983", paper presented to the History Workshop, University of the Witwatersrand, February 1984.

"Working Class Politics: The East Rand and East London in the 1980s", paper presented to the Association of Sociology of Southern Africa Annual Conference, University of the Witwatersrand, July 1984.

"The United Democratic Front and Township Revolt in South Africa", paper presented to: (i) annual congress of the Association of Sociology of Southern Africa, University of the Western Cape, July 1987; (ii) sociology departmental seminar, University of the Witwatersrand, 9 June, 1987; (iii) History Workshop Conference, University of the Witwatersrand, February 1987.

"'Because your yard is too big': Squatter Struggles, the Local State and Dual Power in Uitenhage, 1985-86", paper presented at the African Studies Institute seminar, 14.3.1988.

"Re-thinking State Strategies in the 1980s", paper delivered to Centre for African Studies seminar, University of Cape Town, June 1988.

"Reform, Security and White Power: Re-thinking State Strategies in the 1980s", paper presented to the annual congress of the Association of Sociology of Southern Africa, University of Durban-Westville, July 1988.

(with Phillips, M.), "The Powers of the Thunderbird", presented to the conference on Perspectives on the Contemporary South African State, Centre for Policy Studies, Johannesburg, February 1989.

"Managing Local Government Change: The Johannesburg-Soweto Case", paper delivered to the Institute for Personnel Management Annual Conference, Sun City, 14 September, 1994.

(with Pieterse, E. and Van Donk, M.), "State, Civil Society and Capacity Building for Poverty Eradication in South Africa", paper presented at the Winelands Conference, 11 September, 2003, University of Stellenbosch.

"Can a Culture of Sustainability Emerge from Cities", Inaugural Lecture, Stellenbosch: University of Stellenbosch, 2004.

"Cape Town 2025: A City of Sustainable Neighbourhoods", plenary address presented at Cape Town 2025 Conference co-hosted by the Isandla Institute and the City of Cape Town, 14-15 July, 2005, Cape Town.

(co-author with Moosa, S.), "On the way to a National Strategy for Sustainable Development: Long Term Environmental Trends and Implications for Sustainable Development in South Africa for selected sectors", keynote presentation at National Government workshop on a National Sustainable Development Strategy for South Africa, 4 August 2005.

(with Van Breda, J., Khan, F.), "Economic Policy-Making and the Transformation of the South African State, 1994–2004". Paper presented at the Winelands Conference on *Development – illusion or delusion?* Stellenbosch, 2005.

"Growth, Sustainability and Dematerialisation: Resource Use Options for South Africa 2019", paper commissioned by the Presidency, South African Government, presented at a Workshop on Scenarios for 2019 convened by the Presidency, 11-12 June 2007.

"The Urban Challenge and Lessons for Cape Town", public lecture for the architectural profession at the BP Building, Cape Town, convened by the Cambridge Programme for Industry, 4 October 2007.

"Cities and the Sustainability Challenge", invited plenary address, South African City Summit, African Centre for Cities and SA Cities Network, University of the Witwatersrand, Johannesburg, 24 June 2009.

“Green New Deal – Promise or Chimera?”, public lecture, Centre for Criminology, University of Cape, Cape Town, 3 September 2009.

“Decoupling and Sustainable Resource Management – SA Perspective”, invited plenary presentation, Sustainability in a Changing World: Second South Africa-German Conference on Science for Sustainability, Department of Science and Technology, Pretoria, 26-27 October 2009.

“Decoupling: an operating system for the Green Economy”, plenary presentation to the Green Economy Summit, hosted by South African Government, 18-20 May 2010.

“Sustainable human settlements – a decision support tool”, invited presentation to the Green Buildings parallel session, Green Economy Summit, hosted by South African Government, 18-20 May 2010.

“Beyond Buildings to City Infrastructures”, invited keynote address to the Annual Conference of the Green Building Council of South Africa, 22 September, 2010.

“Conducting Transdisciplinary Research in the South African context: poverty, knowledge and change.” invited keynote address to the Transdisciplinary Seminar, National Research Foundation, 28 October 2011, Pretoria.

Plenary panel discussion member at conference on *Biodiversity: Powering the Green Economy* convened by the South African National Biodiversity Institute, 19-20 October, 2011, Gordon Institute for Business Science, Johannesburg.

Global resource flows, decoupling and the transition to a sustainable economy. *Futures Conference*, Institute for Futures Research, Stellenbosch, 21 October 2011.

“Sustainable Resource Flows and the Green Economy”, invited keynote address to the Dialogue on the Inter-relationships between the Millennium Development Goals, Climate Change and Sustainable Development, Parliament of the Republic of South Africa, Capetown, 19 April 2012.

Swilling, M., Hodgson, J., Keller, A., Wessels, B. 2012. “An incremental energy solution for informal settlement energisation.” South African Solar Energy Conference (SASEC), convened by the Centre for Renewable and Sustainable Energy Studies, Stellenbosch University, Stellenbosch, 21-23 May.

“Global Change: An Overview”, keynote address to the First National Conference on Global Change, National Research Foundation, Pretoria, 26-28 November, 2012.

“Rethinking the Science-Policy Interface in South Africa: Experiments in Co-Production of Knowledge at Different Scales”, paper delivered the First National

Conference on Global Change, National Research Foundation, Pretoria, 26-28 November, 2012.

Is long-wave theory useful for anticipating sustainable futures? Colloquium on Anticipation: Complexity and the Future convened by the Centre for Studies in Complexity and Stellenbosch Institute for Advanced Studies, 18 March 2014.

3.2 International Events

(with Cobbett, W., Glaser, D., Hindson, D.) "South Africa's Regional Political Economy: A Critical Analysis of Reform Strategies in the 1980s", invited paper presented at a conference on The Contemporary State in Africa, convened by the Centre d'Etudes Africaine Paris, December, 1985.

(with McCarthy, J.) "Transport and the Apartheid City", invited paper presented at the Conference on the Processus D'Urbanisation et Composantes Sociales de la Ville en Afrique, University of Paris, December 1985.

"Stayaways, Urban Protest and the State in South Africa", invited paper presented at the Conference on the Processus D'Urbanisation et Composantes Sociales de la Ville en Afrique, University of Paris, December 1985.

(with Phillips, M.) "The Politics of State Power in the 1980s", presented to the Institute for Commonwealth Studies Seminar Programme, London, October 1988.

(with Phillips, M.), "The Politics of State Power in the 1980s", invited paper presented at the conference in Lieverkussen between Soviet Academics, representatives of the African National Congress and a delegation of South African Academics, 1988.

(with Phillips, M.), "The Powers of the Thunderbird: The Nature and Limits of the Emergency State", paper presented to Institute for Commonwealth Studies Seminar Programme, University of London, March 13th, 1989.

(with Phillips, M.), "The Power and Limits of the Emergency State", presented to African Studies Seminar Series, University of York, March 1989.

"The National Security Management System and the Future of Reform", invited plenary address presented to the Aspen Institute Conference on South Africa, Bermuda, March 1989.

"City Politics Comes of Age: Strategic Responses to Local Government Restructuring", invited paper presented to the conference on The Dynamics of Change in Southern Africa, Harare, 19th-23rd June, 1989.

(with Phillips, M.), "The Politics of State Power in the 1980s", presented to the conference on The Dynamics of Change in Southern Africa, Harare, 19th-23rd June, 1989.

"State Strategy and Black Politics", invited presented to Carnegie Endowment for International Peace seminar series, Washington, 24th January 1990.

"State Strategy Under FW de Klerk", invited paper presented at conference on "US-Soviet Policy on Southern Africa and the African Response", organised by the Southern Africa Political Economy Series, Nyanga, Zimbabwe, March 11-15 1990.

"Negotiations in South Africa at the Local Level: Beginnings of a Democratic Process?", invited paper presented to the South Africa seminar series, Centre for International Affairs, Harvard University, Boston, 29.10.1990.

"Negotiating Urban Transition: The Soweto Experience", presented at the Annual Conference of the African Studies Association, Baltimore, 1.11.1990.

"Negotiating Urban Transition: The Soweto Experience", invited paper presented to seminar series of the School of Advanced International Studies Johns Hopkins University, Washington, 5.11.1990.

"Comprehensive Economic Development: Lessons Learned from Abroad", panel discussant, conference on "Uprooting Poverty Through Community Development", organised by Pratt Institute Center for Community and Environmental Development, New York, 6.11.1990.

"Political Transition, Development and the Future of Civil Society", invited paper presented to Second Annual Retreat of the Southern Africa Grantmakers' Affinity Group, Westfields, Virginia, 7.11.1990.

"Towards an Urban Research Agenda for Southern Africa", commissioned paper presented at Conference on Urban Research in the Developing World, American University, Cairo, February 14-18 1993, organised by Centre for Urban and Community Studies, University of Toronto and the Ford Foundation.

"Civic Associations in South Africa", paper presented to the 22nd Conference of the Canadian Association of African Studies, University of Toronto, Toronto, 13-15 May, 1993.

"Local Transition and the Challenge of Sustainable Urban Development: the Greater Johannesburg Case", invited paper presented to World Congress on Urban Growth and the Environment, Hong Kong, November 1994.

"Urban Governance in Southern Africa: A Review", invited paper presented to the Global Urban Research Initiative Conference on Urban Governance in Africa, Dar Es Salaam, 13-15 January, 1995.

"Local Transition and the Challenge of Sustainable Urban Development: the Greater Johannesburg Case", invited paper presented to the UNCHS (HABITAT) Conference on Urban Poverty Research in Africa, Nairobi, 14-16 March, 1995.

"Building Democratic Local Urban Governance in Southern Africa: A Review", invited paper presented at the World Conference of the Global Urban Research Initiative, Mexico City, October 1995. Also presented at the *African Urban Forum* conference organised by the African Research Network for Urban Management, Nairobi, 27-30 November 1995.

(first author with Dave Hutt), "Local Governance in South Africa: The Case of Johannesburg's Waste System", commissioned paper presented to the African Workshop on Governance and Waste Management organised by the African Research Network for Urban Management, University of Ibadan, Nigeria, September 1995.

(first author with Simone, M. and Khan, F.), "'My Soul I Can See': The Limits of Governing Africa's Cities in a Context of Complexity and Globalisation", commissioned paper delivered to the Global Conference of the Global Urban Research Initiative, Washington D.C., Woodrow Wilson Centre, November 1997.

"The Challenge of Urban Governance in Africa", keynote address to the Conference on Associational Life in African Cities: Urban Governance in an Era of Change, Bergen, Norway, 28-30 August 1998.

"South African Non-Profit Sector Study", keynote address, Binational Forum on Civil Society, Durham, N. Carolina, sponsored jointly by the United States-Southern Africa Center for Leadership and Public Values at Duke University and its counterpart at the University of Cape Town, December 2002.

"Non-Profits: Do they Promote Democracy?", plenary address presented at the 5th International Conference of the International Society for Third Sector Research, Cape Town, July 7-10, 2002.

(first author with Bev Russel), "South Africa Non-Profit Sector Study", paper presented at the 5th International Conference of the International Society for Third Sector Research, Cape Town, July 7-10, 2002.

"Building Social Enterprises for Sustainability: A South African Case Study", Grameen-Ashoka International Dialogue Program, Dhaka, Bangladesh, organised by Grameen Bank and Ashoka Academy, 12-23 October, 2003. "

"Opportunities and Challenges for Green Procurement in SA – the role of Local Government", invited paper presented at City Energy Strategies Conference,

organised by City of Cape Town, Sustainable Energy Africa and South African Cities Network, Cape Town, 19-21 November, 2003.

“‘Two Cultures’: an African perspective on the emerging intellectual basis for greater cooperation between the natural and human sciences in the Twenty First Century “, keynote address prepared for the International Workshop on the Origins of Humanity and the Diffusion of Human Populations in Africa, September 17-19, 2003, Lanzerac Estate, Stellenbosch, Co-convened by the Human Sciences Research Council, Academy of Sciences of Southern Africa, and the Sustainability Institute.

(first author with Eve Annecke), “Building Sustainable South African Communities: Learning from the Lynedoch Case”, paper presented at the Sustainable Building 2004 Conference, organised by the Council for Scientific and Industrial Research, Spier Estate, September, 2004. Also presented at (a) the Sustainable Construction Forum, convened by the Holcim Foundation, Zurich, September 2004; and (b) 2005 World Sustainable Building Conference, Tokyo, 27-29 September 2005, paper accepted for oral presentation and inclusion in conference proceedings.

(second author with John Van Breda), “Post-Graduate Programme in Transdisciplinarity and Sustainability Studies: Towards Introduction Transdisciplinarity at Mphil and DPhil levels”, paper delivered at 2nd World Congress on Transdisciplinarity, Vitoria, Brazil, September 2005.

Invited Expert Chairperson of a Panel on Sustainable Technologies for Urban Development, S-Dev05 Conference, Geneva Convention Centre, Geneva, 11-13 October, 2005.

Invited delegate, World Science Forum, Budapest, 8-10 November, 2007.

Invited delegate, *Towards Sustainable Urban Solutions*, Holcim Forum for Sustainable Construction 2007: Urban_Trans_Formation, Shanghai, 19-21 April, 2007.

“Reconstruction and Local Governance: The Long-Term View”, invited keynote address to the *South Sudanese Town Planning Conference*, Juba, July 2007.

“Sustainability and the Power of the Local Demonstrator”, invited keynote address to the Conference on *The Next Great Transformation: A Conversation About The Future of Sustainable Enterprise*, Eden Project, United Kingdom, 24-26 October 2007.

“Urban sustainability – a Cape Town case study”, paper presented at the Conference on *The Next Great Transformation: A Conversation About The*

Future of Sustainable Enterprise, Eden Project, United Kingdom, 24-26 October 2007.

“South African Cities in the Second Decade of Democracy: Emerging Conceptual and Policy Spaces for a New Urban Agenda”, paper presented at International Colloquium on Urban Challenges in Brazil and South Africa: Creating an Agenda for Research and Education Cooperation, Rio de Janeiro, 10-15 September 2007.

“South Africa’s Sustainability Challenges”, paper presented at the Institute for Research in Environment and Sustainability, Newcastle University, 19 October 2007.

(with Martin de Wit), “Le Statut de la Ville et Les Plans Directeurs Participatifs”, paper presented at conference *Nord-Sud: Regards Croisés Sur Le Développement Urbain Durable*, Centre National de la Recherche Scientifique (CNRS), Paris, 23-25 January, 2008.

(with Wendy Crane), Sustainable Resource Use in the Cape Town Functional Region – Towards a Regional Development Strategy. Nairobi: 10th Biennial Conference of the International Society for Ecological Economics (ISEE) co-organised with the African Society for EcoEconomics and UNEP, 7-11 August 2008.

(with Martin de Wit), Natural Resources, the Environment and Service Delivery in The City Of Cape Town: Results From A Systems Dynamics Model. Nairobi: 10th Biennial Conference of the International Society for Ecological Economics (ISEE) co-organised with the African Society for EcoEconomics and UNEP, 7-11 August 2008.

(with Martin de Wit), “Sustainable Resource use and the Challenge of Dematerialization in South Africa: the Case of the City of Cape Town”, paper presented to the 14th Annual International Sustainable Development Research Conference, New Delhi, India, 21-23 September, 2008.

(with Lisa Thompson-Smeddle), “Integrated Analysis Summary of Baseline Result for Cape Town”, paper presented to the 14th Annual International Sustainable Development Research Conference, New Delhi, India, 21-23 September, 2008.

(invited plenary address), “Implications of the Work of the UNEP International Panel for Sustainable Resource Management”, 4th International Conference on Life Cycle Management, Cape Town, 6-9 September, 2009.

“Decoupling and Sustainable Resource Management: Update on Working Group 1 of the International Panel for Sustainable Resource Management”, invited talk at World Resources Forum, Davos, Switzerland, 15 September 2009.

“Decoupling and Sustainable Resource Management: Towards a Conceptual Framework”, International Forum on China’s Green Economy, United Nations Environment Programme & Ministry for Environmental Protection, Government of China, Beijing, 6-7 November, 2009.

Invited observer, Annual General Meeting 2009 of the China Council for International Cooperation on Environment and Development, Beijing, 11-13 November, 2009.

Keynote address co-authored with K. Urama, “Decoupling Economic Growth from Resource Use and Environmental Degradation: International Perspectives and Lessons for Africa”, ATPS Annual Conference, Abuja, Nigeria, 24 November, 2009.

(with M.K. Heun [1st author], J.L. van Niekerk, T. Fluri, A.J. Meyer, A. Brent), “Learnable Lessons on Sustainability from the Provision of Electricity in South Africa”, paper presented at the ASME 2010 4th International Conference on Energy Sustainability, Phoenix, Arizona, May 17-22, 2010.

“Urbanization, Urban Infrastructure and the Deployment Phase of the Information Technology Age: Implications for Developing Country Cities”, invited presentation at World Congress on Information Technology 2010, convened by World Information Technology and Services Alliance, Amsterdam, 25-27 May, 2010.

“Africa 2050: Growth, Resource Productivity and Decoupling”, peer reviewed paper presented at the 17th Annual International Sustainable Development Research Conference: Moving Toward a Sustainable Future – Opportunities and Challenges. 8-10 May 2011, Columbia University, New York.

“Decoupling natural resource use and environmental impacts from economic growth”, invited keynote address to plenary of conference on Resource Efficiency: Using Less, Living Better, convened by the European Commission, 24-27 May 2011, Brussels.

“Africa’s Development Challenges in a Resource Constrained World”, invited keynote address to plenary of the World Resources Forum, 19 September, 2011, Davos, Switzerland.

Peter, C. & Swilling, M. “Sustainable, Low-Carbon Cities in the 21st Century – Making it happen!”, background discussion paper commissioned by the United Nations Environment Programme, prepared for and presented as a keynote address to the United Nations Environment Programme Summit for the Urban Environmental Accords, 11-13 October, 2011, Gwangju, South Korea.

De Wit, M.; Swilling, M.; Van Breda, J.; Ozor, N.; Wandiga, S.O.; Kangalawe, R.Y.M. Integrated Systems Approaches to Innovative Climate Change Adaptation

and Resource Use in Africa. Paper presented to the First Climate Change and Development for Africa (CCDA-1) conference, Addis Ababa, 17-19 October, 2011.

“Beyond the Resource Curse: From Resource Wars to Sustainable Resource Management in Africa”, paper presented to the Winelands Conference on Integrity and Governance, Stellenbosch, April 2012.

“Sustainability and Transdisciplinary Research”, invited keynote address to *Workshop on Climate Change and Transdisciplinarity*, University of Nigeria (Nsukka), 23-24 April 2012.

“Just Transitions and the Next Long-Term Development Cycle: Warnings from the South African Case”, paper presented at the 3rd International Conference on Sustainability Transitions: Navigating Theories and Challenging Realities, Copenhagen, 29-31 August, 2012.

“Just Transitions and the Next Long-Term Development Cycle: Some Warnings from the African Continent”, keynote address to the Conference on The Necessary Transition 2012, Griffiths University, Brisbane, 26-28 September, 2012.

“Rethinking the Science-Policy Interface in South Africa: Experiments in Co-Production of Knowledge at Different Scales”. Paper delivered at Berlin Conference on the Human Dimensions of Global Environmental Change, Freie Universitat Berlin, 5-6 October, 2012.

“Transitions to Low Carbon Development Pathways: Implications for Sustainable Development in Africa”. Paper presented at 2012 African Technology Policy Studies Annual Conference on Emerging Paradigms, Technologies and Innovations for Sustainable Development: Global Imperatives and African Realities, African Union Headquarters, Addis Ababa, 19-22 November, 2012.

“City-Level Decoupling: Urban Resource Flows and the Governance of Infrastructure Transitions”. Paper presented at the Urban Age Electric City Conference, London School of Economics, 6-7 December, 2012.

“City-Level Decoupling: Urban Resource Flows and the Governance of Infrastructure Transitions”. Keynote address to the Conference on *Villet et Environnement: De Nouveaux Defis? City and Environment: New Challenges*, hosted by the Programme Interdisciplinaire de Recherche Ville et Environnement, CNRS, the Ministere De L’Egalite Des Territoires Et Du Logement and the Ministere De L’Ecologie, Du Development Durable Et De L’Energie, Paris, 13-14 December, 2012.

Swilling, M., Tavener-Smith, L., Keller, A., Von der Heyde, V., Wessels, B. 2012. “Rethinking Incremental Urbanism: co-production of incremental informal settlement upgrading strategies”. Paper delivered at the 19th Annual International Sustainable Development Conference, Stellenbosch, 1-3 July 2013.

Panel member and presenter , Thinking Across Boundaries: Planning dilemmas in the urban global south. Annual International Conference 2013 on New Geographical Frontiers, Royal Geographical Society, London, 27-30 August 2013.

Invited Keynote speaker and panel member on Resource Governance, World Resources Forum Annual conference, Davos, Switzerland, 6-9 October, 2013.

City-Level Decoupling, invited talk presented to session on Resource Efficient Cities, World Resources Forum annual conference, Davos, Switzerland, 6-9 October, 2013.

Material flows as resources: contributions of the circular economy and ecological cycles, invited presentation to the EcoCity World Summit, Nantes, France, 25-27 September, 2013.

Invited keynote address, Urban Leadership for African Sustainability, Local Climate Solutions for Africa Conference, convened by ICLEI Local Governments for Sustainability. Dar Es Salaam, October 30-1 November, 2013.

Invited keynote addresses to High-level Seminar on Responsible Management of Natural Resources for a Sustainable Africa: Best Science for Informed Policy Making, hosted by the United Nations Environment Programme, Nairobi, 2-3 November, 2013. (Address 1: Decoupling, trade, development dynamics and inequality. Africa as a special case? Address 2: City-Level Decoupling, Urban Resource Flows and metabolic rates.)

Urbanization in Africa, invited keynote address to 14th International Winelands Conference on Innovation for the Urban Age, Spier Estate, Stellenbosch, 31 March – 4 April, 2014.

Towards sustainable urban infrastructures for the urban anthropocene, paper presented to 14th International Winelands Conference on Innovation for the Urban Age, Spier Estate, Stellenbosch, 31 March – 4 April, 2014.

Greening Africa's Economies and Structural Transformation, invited keynote address to side event on Greening Africa's economies and structural transformation at United Nations Economic Commission for Africa and African Union Annual Conference of Ministers of Economy and Finance, Abuja, 28 March 2014.

Invited keynote address to the 8th International Conference of the International Forum on Urbanism on the theme *True Smart and Green City?* Songdo, South Korea, 22-24 June 2015. Title of keynote: Green Urban Infrastructures for the Twenty First Century: What Prospects for a Just Transition?

Davies, M. & Swilling, M. 2015. Intermediaries and learning in sustainability-oriented urban transitions: a transdisciplinary case study from Stellenbosch Municipality. Paper presented at the International Sustainability Transitions 2015 Conference, Brighton, 23-25 August, 2015.

Davies, M. & Swilling, M. 2015. Intermediaries and learning in sustainability-oriented urban transitions: a transdisciplinary case study from Stellenbosch Municipality. Paper presented at the International Sustainability Transitions 2015 Conference, Brighton, 23-25 August, 2015.

Swilling, M. 2016. Rethinking Innovation in an African Context. Talk presented at the STIAS Roundtable on Innovation for Prosperity. Stellenbosch: Stellenbosch Institute for Advanced Studies, 21-23 February 2016.

Swilling, M. 2016. Sustainable Development Goals in a World in Transition. Invited keynote address to the 15th International Winelands Conference on Governance of Transitions in a Complex World. Stellenbosch University, 30 March – 1 April 2016.

Swilling, M. 2016. Global transition, urban change and the emergence of new modes of governance. Paper presented at the 15th International Winelands Conference on Governance of Transitions in a Complex World. Stellenbosch University, 30 March – 1 April 2016.

Swilling, M. 2016. Green Growth and Cities in Africa. Paper presented at the 15th International Winelands Conference on Governance of Transitions in Complex World. Stellenbosch University, 30 March – 1 April 2016.

Davies, M. & Swilling, M. 2016. Exploring institutional hybridity and urban learning in the governance of sustainability transitions in Stellenbosch. Paper presented to the 15th International Winelands Conference on the Governance of Transitions in a Complex World. Stellenbosch, 30 March – 1 April 2016.

Swilling, M. 2016. Planetary Urbanism. Invited keynote address to the International Architecture Biennial Rotterdam (IABR). Rotterdam, 29 April 2016.

Swilling, M. 2016. Decoupling Resource Use and Wellbeing: A key element of a New Economic Theory. Plenary presentation to the Conference on Post-2008 Global Dynamics and Structural Changes: Economic, Political and Eco-Societal Transitions convened by the World Academy of Art and Science. University of Lisbon, 13-14 May 2016.

Swilling, M. 2016. Resource Requirements of Future Urbanisation. Public lecture at University of Sheffield, 17 May 2016.

Swilling, M. 2016. Transdisciplinary Research for Transformation in an African Context. Public lecture at the Centre for Agroecology Water and Resilience, University of Coventry, 30 June 2016.

Swilling, M. 2016. Anticipating the Governance Implications of Global and Urban Transitions: A Long-Wave Perspective. Invited keynote address to the Industrial Ecology Gordon Research Conference on Opportunities for the Critical Decade – Decoupling Wellbeing from Environmental Pressures and Impacts. Stowe, Vermont, USA, 19 June 2016.

Swilling, M. 2016. Resource efficient urbanism: infrastructures and strategic intensification. Invited keynote address to the Urban Age Conference on Shaping Cities. Venice, 14 July 2016.

Swilling, M. 2016. Global transformation, reinventing learning and the role of the university in the 21st century. Keynote address to the 14th Annual Library Symposium. Stellenbosch University, 4 November 2016.

Swilling, M. 2016. City Infrastructures and Innovation in African Cities. Panelist at the Senior Expert Dialogue on African Cities as Innovation Hubs for Africa's Transformation, hosted by the Department of Science and Technology and the United Nations Economic Commission for Africa. Pretoria, 3 November 2016.

Tshangela, M. & Swilling, M. 2017. Five complementary lenses on sustainability transitions and policy dynamics: a literature review. Paper presented at the 8th International Sustainability Transitions (IST) Conference: Taking the lead in real world transitions, Gothenburg, Sweden, 18-21 June 2017.

Davies, M. & Swilling, M. 2017. Renewable energy and urban transitions: insights from South Africa's Renewable Energy Independent Power Producer Procurement Programme. Paper presented at the 8th International Sustainability Transitions (IST) Conference: Taking the lead in real world transitions, Gothenburg, Sweden, 18-21 June 2017.

Swilling, M. & Hajer, M. 2017. Governance of Urban Transitions: Resource Requirements of Future Urbanization and the Potential of Alternatives. Paper presented at the 8th International Sustainability Transitions (IST) Conference: Taking the lead in real world transitions, Gothenburg, Sweden, 18-21 June 2017.

4. Major Technical/Research Reports

(co-author), *Langa: The Case for Upgrade*, report commissioned by the Langa Coordinating Committee, 1986.

"Beyond Ungovernability: Township Politics and Local-Level Negotiations", *Policy Issues and Actors*, Centre for Policy Studies, Johannesburg, November, 1988.

(co-author), *Green Paper on Public Service Training and Education*, Government Gazette, 1997.

(co-author), *Change Management Strategy: Department of Land Affairs*, unpublished report commissioned by, Department of Land Affairs, 1995.

(with Ben Cashdan, Morabo Morojele, Lauren Schutte, and Petal Thring), *Development Planning in International Perspective*, report commissioned by the Ministry without Portfolio in the Office of the President responsible for the Reconstruction and Development Programme, 1996.

(with Bennington, J., Masters, R., Cranko, P.), "South African Local Government Association: Business Plan and Needs Analysis", commissioned by the South African Local Government Association, January 1998.

(with ARG Design), *Spier Development Framework*, commissioned by Spier Holdings (Pty) Ltd, April 1999.

Lynedoch EcoVillage Development, Technical Report for the International Finance Corporation, July 2003.

(co-authors with Merle Sowman, Jessica Wilson, Jon Hanks), *Towards a Sustainable Development Implementation Plan for the Western Cape*, Western Cape Provincial Development Council, May 2005.

(co-author with Dr. Shehnaaz Moosa), "On the way to a National Strategy for Sustainable Development: Long-Term Environmental Trends and Implications for Sustainable Development in South Africa for selected sectors", report commissioned by the Department of Environmental Affairs and Tourism, South African Government, August 2005.

"'Hear the forest grow': SDI Evaluation – Africa", report commissioned by Shackdwellers International based a research trips to Nairobi and Blantyre, February 2005.

(first author) with van Breda, J., Van Zyl, A., Khan, F. *Economic Policy-Making in a Developmental State: Review of the South African Government's Poverty and Development Approaches, 1994-2004*. Economic Policy and Poverty Alleviation Report Series. Research Report 3. Centre for Civil Society, University of KwaZulu-Natal, 2006.

(first author) with Van Breda, J. *Institutionalising the Developmental State: the Case of the Special Funds*. Economic Policy and Poverty Alleviation Report Series. Research Report 4. Centre for Civil Society, University of KwaZulu-Natal, 2006.

(with John Van Breda, Mokena Makeka, Michael Lagus), *Oude Molen Sustainable Neighbourhood*, strategic framework for the redevelopment of the Oude Molen property near Pinelands, Cape Town, commissioned by the Department of Public Works, Provincial Government of the Western Cape, 2007.

(with Alan Fleming) *Strategic Development Framework for Creating a Sustainable Business and Residential Neighbourhood (SBRN) on the Site of a Disused Cement Factory in Philippi, Cape Town*. Commissioned by Philippi Business Place (Section 21), owner and developer of the site with a Board comprising Investec Bank, Abalimi, British American Tobacco and Sustainability Institute, 2007.

'Bowling with the Mayor': Overview of the Context, Work and Significance of the Homeless People's Federation of the Philippines. Report Commissioned by Shackdwellers International, based on field research in the Philippines. January 2007.

Western Cape Sustainable Human Settlement Strategy. Policy paper commissioned by the Western Cape Provincial Government. June 2007.

(with Ingrid Coetzee), Sustainable Development Framework for South Africa. Policy paper commissioned by the Department of Environmental Affairs and Tourism. August 2007.

(with Martin de Wit), *iKapa Provincial Growth and Development Strategy*. Policy document commissioned by the Office of the Premier, Provincial Government of the Western Cape, November 2007.

De Wit, M., Musango, J. & Swilling, M. "Natural resources, poverty, municipal finances and sustainable service provision. Results of a participatory systems dynamics scoping model in Cape Town. Report commissioned by the Sustainability Institute on behalf of City of Cape Town. Funded by United Nations Development Programme. October 2008.

(with Paul Hendler), Stellenbosch 2017 Housing Strategy: A Final Proposal to Stellenbosch Municipality, October 2008.

Spencer, F., Swilling, M., Everatt, D., Muller, M., Schulschenk, J., du Toit, J., Meyer, R. & Pierce, W. *Developmental Green Economy for Gauteng*. Report commissioned by Gauteng City-Region Observatory on behalf of Gauteng Government's Department of Economic Development, 2010.

Peter, C. (co-lead author), Swilling, M. (co-lead author), du Plooy, P., de Wit, M., Wakeford, J., Lanz, J., Haysom, G., Kelly, C., Turton, A., Brent, A., Mason-Jones, K., Hansen, Y., Cohen, B. 2010. Greening the South African Growth Path: Challenges, Prospects and Trajectories. Policy Report commissioned by the Development Bank of Southern Africa.

Swilling, M. (lead author), Pieterse, E., Hodson, M., Marvin, S., Hyman, K. 2010. Cities, Decoupling and Urban Infrastructure: Scoping the Challenges. Paris: Scoping Report commissioned by the International Resource Panel, United Nations Environment Programme, November.

Bringezu, S. (co-lead author), O'Brien, M., Pengue, W.A. (co-lead author), Swilling, M., Kauppi, L. 2010. Assessing Global Land Use and Soil Management for Sustainable Resource Policies. Paris: Policy Report commissioned by the International Resource Panel, United Nations Environment Programme.

Swilling, M. 2010. Africa 2050: Growth, Resource Productivity and Decoupling. Policy Research report commissioned by UNEP for presentation at the 'High-Level African Policy Dialogue' with the International Resource Panel, November.

Co-Author with Spiropolous, J., Southworth, B., Makeka, M. 2010. Cape Town Central City Provincial Government Regeneration Initiative, Report commissioned by Cape Higher Education Council and the Department of Public Works, Western Cape Provincial Government.

Lead Author with Spencer, F., Everatt, D., Muller, M., Schulschenk, J., du Toit, J., Meyer, R., Pierce, W. 2010. A Developmental Green Economy for Gauteng, Report commissioned by the Department of Economic Development, Gauteng Government.

Fischer-Kowalski, M. & Swilling, M. (co-lead authors) 2011. Decoupling the Use of Natural Resources and Environmental Impacts from Economic Growth. Paris: International Panel for Sustainable Resource Management, United Nations Environment Programme.

Swilling, M., Robinson, B., Marvin, S. & Hodson, M. 2013. City-Level Decoupling: Urban Resource Flows and the Governance of Infrastructure Transitions. Final Report commissioned by the Cities Working Group of the International Resource Panel, United Nations Environment Programme.

Peter. C. (first author) & Swilling, M. 2012. *Sustainable, Resource Efficient Cities – Making it happen!* United Nations Environment Programme, Nairobi.

Urama, K. (first author), Swilling, M. & Acheampong, E.N. 2012. Role and Contribution of Research and Postgraduate Train in Strengthening and Sustaining the African Higher Education and Research Space (AHERS). Report commissioned by the Working Group on Higher Education (WGHE) of the Association for the Development of Education in Africa (ADEA). Nairobi: African Technology Policy Studies Network.

Palmer, I., Graham, N., Swilling, M., Robinson, B., Eales, K., Fisher-Jeffes, L., Käsner, S. And Skeen, J. 2013. South Africa's Urban Infrastructure Challenge.

Report commissioned by Ministry of Cooperative Governance and Traditional Affairs, Pretoria.

Robinson, B., Musango, J., Swilling, M., Joss, J. & Mentz-Lagrange, S. 2013. Urban metabolism assessment tools for resource efficient cities. Report commissioned by UNEP, Paris. (Available at: http://www.sustainabilityinstitute.net/newsdocs/document-downloads/cat_view/23-research-project-outputs).