

CURRICULUM VITAE - PROFESSOR DAVID E KAPLAN

PERSONAL DATA

Date of Birth	25 March 1948
Place of Birth	Bulawayo, Zimbabwe
National Status	South African citizen Resident in South Africa and France
Address (h)	49 Rue de la Montagne St Genevieve, Paris 70005 604 Upper East Side, Brickfield Road, Woodstock, Cape Town 7195
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EDUCATION

1969	University of Cape Town (UCT) BA, Economic History, Comparative African Government and Law
1970	University of Cape Town (UCT) B.Comm, Economics, Business Administration
1972	University of Kent, Canterbury, England MA Economics
1977	Institute of Development Studies, University of Sussex DPhil Development Economics

CAREER OUTLINE

2004 - 2009	Professor Graduate School of Business (UCT)
2004- 2010	Chief Economist (part-time) Department of Economic Development and Tourism, Provincial Government of the Western Cape
2000 - 2003	Chief Economist Department of Trade & Industry, South African Government
1998 - present	Professor of Business Government Relations Department of Economics (UCT)
1986 - 1998	Associate Professor Department of Economic History (UCT)
1983 - 1986	Senior Lecturer Department of Economic History (UCT)
1980 - 1983	Lecturer Economic History (UCT)
1978 - 1980	Visiting Professor Department of Economics, University of Massachusetts
1976 - 1977	Lecturer in Development Swedish Volk High School

1973 - 1977	Student Fellowship Institute of Developmental Studies
1972 - 1973	Research Assistant to Prof TS Epstein Institute of Developmental Studies

AREAS OF SPECIALITY AND INTERESTS

Innovation
Science and Technology Policy
Economic Development of the Western Cape
Industrial Policy
Economics of Technical Change
Economic History of South Africa and Sub-Saharan Africa
Development Economics
Theory of the State
Multinational Enterprises
Entrepreneurship and SMME Development
Telecommunications Industry
Intellectual Property Rights

AWARDS, POSITIONS ABROAD, MEMBERSHIPS, NETWORKS

AWARDS

Distinguished Teachers Award, UCT (1986)
Fellowship Musee de L'homme (Paris) awarded by Institut Francais Afrique du Sud and the Cultural, Technical and Cooperation Services of the French Embassy June- July 1997

UNIVERSITY POSITIONS ABROAD

Feb-June 1989: Visiting Fellow, Institute of Development Studies, University of Sussex
Jan-Jul 1999: Visiting Associate, Centre for International Studies, University of Toronto

MEMBERSHIPS

Economic Society of South Africa, Board Member
Capricorn Foundation, Board Member
Governing Body Westerford High School, Treasurer
Vice Chair South African Association of Canadian Studies

NETWORKS

Globelics: Member Scientific Board
Chair of the AFICALICS (GLOBELICS Africa) Advisory Committee

SELECTED UNIVERSITY SERVICE

1. Member of a number of university committees with a focus on research
 2. University Scenario Planning Committee
 3. Senate Sub-Committee on Intellectual Property
 4. Department of Economic History: Head of Department 1989-1990
 5. Founder member (with A. Hirsch and D. Lewis) of the Development Policy Research Unit 1990
 6. Director and Deputy Director Development Policy Research Unit 1990-2000
 7. Founder of the Science and Technology Policy Research Unit 1994
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8. Director of the Science and Technology Policy Research Unit 1994-2000
9. Committee Member of Policy Research in International Services and Manufacturing (PRISM)

PUBLICATIONS

PRIOR TO 1985

1. 'The politics of industrial protection in South Africa, 1910-39', Journal of Southern African Studies, Vol.3, No.1, October 1976; reprinted in M.J. Murray (ed.), South African Capitalism and Black Political Opposition. Schenkman, 1982
2. 'An analysis of the South African state in the "fusion" period, 1932-39', Institute of Commonwealth Studies. Collected Seminar Papers on Southern Africa, Vol.9, 1976
3. 'Capitalist development in South Africa: Class conflict and the state' Institute of Development Studies Working Paper No.20; reprinted in T. Adler (ed.), Perspectives on South Africa; African Studies Institute, University of the Witwatersrand, 1977
4. (With M. Morris) 'Labour policy in a state corporation: A case study of the South African Iron and Steel Corporation', South African Labour Bulletin - Part 1 - January 1976; Part 2 - April 1976
5. (With R. Davies, M. Morris and D. O'Meara: 'Class struggle and the periodisation of the state in South Africa', Review of African Political Economy, No.7, 1976
6. (With R. Davies) 'Capitalist development and the evolution of racial policy in South Africa', Tarikh, Vol.6, No.2, 1979
7. 'Relations of production, class struggle and the state in South Africa in the inter-war period', Review of African Political Economy, No.15/16, 1979
8. 'The South African state: The origins of a racially exclusive democracy', The Insurgent Sociologist, Vol.X, No.2, Fall 1980
9. (With M. Morris) 'Manufacturing capital and the question of African trade union recognition 1960-64', South African Labour Bulletin, Vol.7, Nos. 1 and 2, September 1981
10. 'South Africa's changing place in the international economy', South African Research Service: South Africa Review, 1982
11. 'The current upswing in the South African economy and the international capitalist crisis: A reinterpretation of South African "development"', Work in Progress, No.16, Special Supplement, 1981
12. (With L. Cooper (eds.): Selected Research Papers on Aspects of Organisation in the Western Cape, 1982; Reform and Response: Selected Research Papers on Aspects of Contemporary South Africa, 1983
13. (with G. Bloch (eds.): South African Research Papers, 1984; South African Research Papers, 1985
14. 'The internationalisation of South African capital': South African direct foreign investment in the contemporary period', African Affairs, October 1983 reprinted in: M. Fransman (ed.): Southern African Studies: Retrospect and Prospect. Centre of African Studies, University of Edinburgh, 1983

1985 - 1995

1. 'New technology in the South African garment industry', South African Labour Bulletin, Vol.10, No.7, June 1985
 2. 'The diffusion of microelectronic technology in South African manufacturing industry. The case of Computer Aided Design', Studies in Economics and Econometrics, No.23, November 1985
 3. 'The social impact and origins of microelectronic technology: a challenge for the South African engineer', Transactions of the South African Institute of Electrical Engineers, 77, 1986
 4. 'The current crises; an opportunity for the unions', South African Labour Bulletin, 12, 1986
 5. 'Le capital sud-Africain contemporain', Les Temps Modernes. Afrique du Sud: Demain le Feu 479, 1986
 6. 'Technical change and union organisation: the closure of Epol in Cape Town', South African Labour Bulletin, 11, 1986
 7. 'Machinery and industry: The causes and consequences of constrained development of South African machine tool industry', Social Dynamics, 13(1), 1987
 8. Centre for African Studies Africa Seminar: Collected Papers, Vol.3, 1983 (edited). UCT, 1987
 9. 'Dave Kaplan interviews workers in Zimbabwe', South African Labour Bulletin, Vol.12, No.6/7, Aug/Sept. 1987
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10. 'Beyond the indicators: A perspective on the South African economy in 1986'. South African Review, No.4, Ravan Press, 1987
11. 'A new industrial divide? The impact of computers on the economy', Computers - Warts and All. University of the Witwatersrand Senate Special Lectures, Wits University Press, 1989
12. 'State policy and technological change: The development of the South African telecommunications industry', Journal of Southern African Studies, 15(4), 1989
13. 'The impact of the current economic crisis on the development of the South African capital goods sector', in Steven Gelb (ed.), South Africa's Economic Crises. David Philip, January 1991
14. 'State can do more to help develop local technology', Business Day, (op ed. page), 1991
15. Human Resource Implications of the Introduction of New Technology in South Africa (56 pages). Study for the Commonwealth Expert Group on Human Resource Development for a Post-Apartheid South Africa, March 1991
16. 'Scarce Resources and unlimited needs: targeting technology in the new South Africa' and 'Introduction' and 'Background Paper' in Department of Adult Education and Extra-Mural Studies, UCT, Proceedings, Technology and Reconstruction Colloquium, May 1991
17. 'New technology: new skills, new opportunities', South African Labour Bulletin, Vol.15, No.5, June 1991; Reprinted in South African Engineering News.
18. 'Priorities in Science Policy in a changing context. An Economic Perspective', Proceedings of Science Policy Options for a Democratic South Africa, Davis et al (eds.), June 1992
19. 'The Development of Telecommunications in South Africa. The Equipment Supply Industry', Critical Arts, Vol.6, No.1, August 1992
20. 'Meeting the Global Challenge: A Framework for Industrial Revival in South Africa', in Baker, P. et al (eds.). South Africa and the World Economy in the 1990s, David Philip, 1993
21. 'An Industrial Strategy for a Post-Apartheid South Africa', IDS Bulletin, Vol.25, No.1, Jan. 1994 (with A. Joffe, D. Lewis and R. Kaplinsky)
22. 'Technology Support and SMEs: A note on the international experience and the implications for the design of policy in South Africa', Friedrich Ebert Stiftung: Issues in Development, No.5, January 1994
23. 'Proposals for a Future National Science and Technology Management System in South Africa', Report produced for the S&T Initiative (with G. de Wet), May 1994

1995 - 2000

1. 'An Afterword' in Building a New South Africa: Science and Technology Policy, International Development Research Centre (IDRC), Canada, Ottawa 1995 (pp.69-81)
 2. 'Science and Technology in a Democratic South Africa' in Sciences et Development. Les Sciences Hors D'Occident Au XX Siecle. Roland Waast (ed.). ORSTOM, Paris, 1996
 3. 'Science and Technology in a Democratic South Africa - New Challenges and New Policy Directions' in Science, Technology and Society, Vol. 1. No. 1, January 1996 Sage, India (pp.101-128).
 4. The State of Science and Technology in South Africa. New Priorities, New Policies, Science and Technology Policy Research Centre, Working Paper No. 1, 1996 (pp. 27).
 5. (With Tjaart van der Walt) 'Industry-academic-government cooperation in technological innovation and human resource development- the challenge for South Africa' Industry and Higher Education, vol. 10 No. 6. December 1996
 6. (With David Lewis) 'Improving Productivity Performance in South Africa: A response to Trevor Bell' Transformation, Vol.30, 1996
 7. 'A report on Innovative Activity in South African Manufacturing Firms', Trade and Industry Monitor, April 1997
 8. 'Universities and the Business Sector: Strengthening the Links' in Social Dynamics. Special Issue on Transformation and the University. August 1997. University of Cape Town
 9. (With William Blankley) Innovation Patterns in South African Manufacturing Firms. Report on the survey of innovative activity in South African manufacturing firms. (pp. 142) ISP and FRD, Pretoria. October, 1997
 10. 'Reversing the Brain Drain: The Case for Utilising South Africa's Unique Intellectual Diaspora', Science, Technology and Society, vol. 2. No. 2. July-December, 1997
 11. (With William Blankley) 'Innovation and South African industry: What are we trying to measure?' South African Journal of Science, vol.94. February, 1998
 12. The South African Electronics Industry. The International Development Research Centre of Japan.(pp. 35) March, 1998
 13. (With R. Kaplinsky) 'Trade and industrial policy on an uneven playing field; the case of the deciduous fruit canning industry in South Africa' World Development, September, 1999, WD 929
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14. 'New Perspectives in the Economics of Technological Change Literature and the Making of S&T Policy in Post-Apartheid South Africa' South African Journal of Economics, September, 1999
15. 'The South African mobile phone system' in Mitter, S. and Bastos, M-I. Europe and Developing Countries in the Globalised Information Economy. Employment and distance education. UNU/INTECH, Routledge, London 1999.
16. (With J-B Meyer) 'Brain Drain: New Data, New Options.' Trade and Industry Monitor, vol. 11, September, 1999
17. (With Mercy Brown and Jean-Baptiste Meyer) 'SANSAs: A Promising Link with the Diaspora. The Graduate. Newsletter of the HSRC registers of graduates. 1999
18. Study to Determine Which Services Should be Rendered to SMMEs by The Proposed Technology Transfer Agency and on What Basis. Report Submitted to the Department of Trade and Industry Policy Support Programme (pp.34) September, 1999
19. Out of South Africa: South Africa's Telecommunications Equipment Industry, Telecommunications in Africa, Edited by Eli M. Noam, Oxford University Press, 1999
20. Innovation, Technological Capability and Exporting: An Empirical Analysis of Small Manufacturing Firms in the South African Electronics Industry. Small Business Development Issues. Ntsika Enterprise Promotion Agency & Friedrich Ebert Stiftung, 2000. ISBN 1-919 779-08-06
21. (With Jean-Baptiste Meyer) Migration of the Professional, Semi-professional and Technical Occupations in South Africa: Past Patterns, Current Trends and Policy. Jorge Charum and Jean-Baptiste Meyer (eds) International Scientific Migrations Today, Institut de recherche pour le developement, 2000. CD Rom IRD Editions, 2000.
22. (with Brown M, Meyer J-B) The Brain Drain: an Outline of Skilled Emigration from South Africa. Africa Insight, vol 30, no 2, October 2000

2001 - 2003

1. Rethinking Government Support for Business Sector R&D in South Africa: The Case for Tax Incentives. The South African Journal of Economics, vol. 69. No1. March 2001
2. 'Investment and its Determinants in South Africa – An Economic Policy Perspective' Sisebenza Sonke, Issue 1. May, 2001
3. (With Meyer J-B & Charum J) Scientific nomadism and the new geopolitics of knowledge, International Social Sciences Journal no 168 June 2001
4. Towards a New Integrated Industrial Strategy for Sustainable Employment and Growth in South Africa. An interview with Dave Kaplan. Sisebenza Sonke, Issue 2, August 2001
5. (With Maria Cynthia Rose Banzon Bautista & Lea Velho) Comparative Study of the impacts of donor-initiated programmes on research capacity in the South. Report to the Directorate-General for Development Cooperation Division for Research and Communication Ministry of Foreign Affairs, the Netherlands September 2001
6. (With Raphael Kaplinsky) Information and communications technology in a middle income country – The case of South Africa, International Labour Organisation World Employment Report 2001 (Report). 2001
7. (With Mercy Brown and J-B Meyer) The Brain Drain: An Outline of Skilled Emigration from South Africa, McDonald and Crush (Eds) Destinations Unknown Perspectives on the Brain Drain in Southern Africa. African Century of Publications Series no. 5 (pp 99-112), 2002
8. South Africa's National Research and Development Strategy – the Implications for the DTI and the Integrated Manufacturing Strategy, Sisebenza Sonke, Issue No. 6, (pp. 2-11) 2002 (November)
9. Measuring our competitiveness – a critical examination of the IMD and WEF competitiveness indicators for South Africa, Development Southern Africa, (pp. 75-88) vol. 20, No. 1, 2003 (March)
10. (with Mercy Brown and Jean-Baptiste Meyer) 'All in the mind? The Emigration of South Africa's young professionals' id21 society and economy 2003 (DFID-IDS electronic publication communicating development research)

2004 – Present

1. South Africa's National Research and Development Strategy: A Review. Science, Technology and Society 9.2. (September, 2004)
 2. Manufacturing Performance and Policy in South Africa over the Last Decade. Development South Africa 21. No. 4 (October, 2004)
 3. (With P. Alves) South Africa's Declining Export Shares: The Developing Country Challenge. Trade and Industry Monitor (September, 2004).
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4. (With William Blankley) 'South Africa's first survey of innovation in the manufacturing sector and recommendations for the next survey' Measuring Innovation in OECD and non-OECD countries. Selected Seminar Papers. (Blankley et al eds.) HSRC Press (2005)
5. (With Eric Wood) The role of industry networks in innovation and performance improvement in the South African Wine industry. International Journal of Technology and Globalisation. vol 1. No. 3/4 2005
6. 'The Institutional Context for Industrial Policy: The Western Cape Microeconomic Development Strategy' Journal of Development Perspectives. Vol. 2. No. 2. 2007.
7. 'The constraints and institutional challenges facing industrial policy in South Africa: a way forward' Transformation (64) 2007
8. 'Science and Technology Policy in South Africa: Past Performance and Proposals for the Future' Science, Technology and Society 13:1 2008
9. With George Clarke, James Habyarimana and Vijaya Ramachandran) 'Why Isn't South Africa Growing Faster? Microeconomic Evidence from a Firm Survey' Journal of International Development vol. 20 2008
10. 'Industrial Policy in South Africa: Targets, Constraints and Challenges' Trade and Industry Monitor vol. 39 2008 (November)
11. 'South Africa's exports of high-technology products: a comparative perspective and some policy priorities' International Journal of Technological Learning, Innovation and Development vol. 2. No. 3 2009
12. 'Intellectual Property Rights and Innovation in South Africa: A Framework' World Intellectual Property Organisation (WIPO) (ed.) The Economics of Intellectual Property in South Africa. WIPO, June 2009.
13. (With Eric Wood) 'The Wine Cluster in South Africa' in Douglas Zhihua Zeng (ed.) Knowledge, Technology, and Cluster-Based Growth in Africa. The World Bank. Washington D.C. 2010
14. 'Science and Technology and Economic Growth in South Africa: Performance and Prospects' in Xiaolan Fu and Luc Soete (eds.) The Rise of Technological Power in the South. Palgrave Macmillan, London. 2010
15. Resources Policy Special Issue – "Making the Most of Commodities: The Determinants of Linkages in Africa" Edited with Professor Mike Morris (UCT) and Raphael Kaplinsky (Open University, UK) Resources Policy 2012, December Issue 4.
16. David Kaplan, 'South African Mining Equipment and Related Services: Technological Capacity, Export Performance and Policy.' Resources Policy 2012, December Issue 4.
17. Mike Morris, Raphael Kaplinsky and David Kaplan, 'One Thing Leads to Another' – Commodities, Linkages and Industrial Development' Resources Policy 2012, December Issue 4
18. Doris Schroeder, Sally Dalton-Brown, Benjamin Schrepf, David Kaplan (2016) Responsible, Inclusive Innovation and the Nano-Divide. NanoEthics vol. 10, Issue 2 pp. 177-188
19. David Kaplan and Thomas Hoppli (2017) The South African brain drain: An empirical assessment. Development Southern Africa vol. 34.5 2017.

BOOKS

1. The Crossed Line: The South African Telecommunications Industry in Transition. Wits University Press, 1990
2. Improving Manufacturing Performance. Report of the Industrial Strategy Project, with A. Joffe, R. Kaplinsky and D. Lewis, University of Cape Town Press, Cape Town and IDRC, Ottawa, 1995 (pp.263)
3. George Clarke, James Habyarimana, Michael Ingram, David Kaplan and Vijaya Ramachandran (2007) An Assessment of the Investment Climate in South Africa. The World Bank, Washington D.C.
4. (WIPO) (ed.) The Economics of Intellectual Property in South Africa. WIPO, June 2009. ("The publication is the result of a WIPO project on "The Economics of Intellectual Property in South Africa" coordinated by Prof. David Kaplan...Professor Kaplan was responsible for securing authors for the chapters, providing guidance, writing the first chapter that provides the overall framework to this book and organising the workshop on the Economics of Intellectual Property that gave rise to this book.")
5. Itzhak Goldberg, David Kaplan, Smita Kuriakose, Krista Tuomi and Chunlin Zhang (2011) Fostering Technology Absorption in Export Manufacturing Firms in Four Southern African Countries World Bank, Washington D.C. (October, 2011)
6. Mike Morris, Raphael Kaplinsky and David Kaplan One Thing Leads to Another. Promoting Industrialisation by Making the Most of the Commodity Boom in Sub-Saharan Africa. ISBN 978-1-4717-8188-9 (pages 252) pdf version available at: <http://www.commodities.open.ac.uk/liveres>. Printed version (for \$9.64 + postage) available at: <http://www.lulu.com/shop/mike-morris-and-raphael-kaplinsky-and-david-kaplan/one-thing->

RECENT BOOK CHAPTERS

1. Kaplan, D. (2014). "Technology and innovation: performance, policy and prospects," in the [Oxford Companion to the Economics of South Africa](#), Oxford University Press, edited by Haroon Borat, Alan Hirsch, Ravi Kanbur, and Mthuli Ncube, Oxford:UK. Chapter 26.
2. David Kaplan (2015) "The Structure and Performance of Manufacturing in South Africa" In Wim Naude, Adam Szirmai and Nobuya Haraguchi (eds.) [Structural Change and Industrial Development in the BRICS](#). Oxford University Press. Chapter 9
3. David Kaplan (2015) "Manufacturing in Post-Apartheid South Africa: Performance and Policy" in Jon Weiss and Michael Tribe (eds.) [Routledge Handbook of Industrial Development](#). Routledge. Chapter 22
4. Kaplan, D. (2015) "Linkage Dynamics and Natural Resources. Diversification and Catch-Up." In Padmashree, Gehl Sampath and Oyeleran-Oyeyinka, Banji (eds.) [Sustainable Industrialisation in Africa](#). Palgrave, Macmillan. Chapter 4.
5. David Kaplan (with Doris Schroeder) (2019) "Responsible inclusive innovation: tackling grand challenges globally" Rene von Schomberg and Jonathan Hankins (eds.) [International Handbook on Responsible Innovation. A Global Resource](#). Edward Elgar.

BOOK REVIEWS

1. "Aid benefits remain unresolved". Review of David Jones: Aid and Development in Southern Africa. British Aid to Botswana, Lesotho and Swaziland. Croom Helm, 1977. [Ceres, 1977](#). (The Journal of the Food and Agricultural Organisation.)
2. "Avoiding violent revolution". Review of Ozay Mehmet: Economic Planning and Social Justice in Developing Countries. Croom Helm, 1978. [Ceres, 1979](#)
3. Review of Leonard Thompson and Jeffrey Butler: Change in Contemporary South Africa. University of California Press, 1975; [Sociological Review](#), February 1977
4. Review of Robert Ressel: The Ragged Trousered Philanthropists. Panther, 1965
5. Review of Yann Fitt, Alexander Faire and Jean-Pierre Vigier: The World Economic Crisis. Zed Press, 1980; [Social Dynamics](#), 1981
6. Review of Martin Fransman: Industry and Accumulation in Africa. Heinemann, 1982; [Journal of Southern African Studies](#), Vol.10, No.2, April 1984
7. Review of Alain de Janvry: The Agrarian Question and Reformism in Latin America. Johns Hopkins University Press, [Social Dynamics](#), 1981

RECENT PUBLISHED REPORTS

1. [Microeconomic Development Strategy for the Western Cape. Synthesis Report. 2005](#) (July) Department of Economic Development and Tourism, Provincial Government of the Western Cape (ps. 326)
 2. [Microeconomic Development Strategy for the Western Cape. Synthesis Report. 2006](#) (July) Department of Economic Development and Tourism, Provincial Government of the Western Cape (ps. 220)
 3. (with Reza Daniels, Jo Lorentzen and Mike Morris. I was project coordinator) [Microeconomic Development Strategy for the Western Cape. Synthesis Report 2007/8](#) (December) Department of Economic Development and Tourism, Provincial Government of the Western Cape (ps. 107)
 4. [Science and Technology Policy in South Africa: A Critical Assessment of Past Performance and Proposed Future Directions](#). United Nations Industrial Development Organisation, Research and Statistics Branch. Working Paper 01/2008.
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5. [Fostering Technology Absorption in Enterprises in Southern Africa. Finance and Private Sector Development, Africa Region.](#) World Bank. 2011 (May)
6. (with Mike Morris and Raphael Kaplinsky) ['One Thing Leads to Another' – Commodities, Linkages and Industrial Development: A Conceptual Overview.](#) PRISM. Incidental Paper
7. [The Role of the Business Sector in Science Technology and Innovation \(STI\).](#) A Specialist Policy Advice Report Produced for the Ministerial Committee on STI 2011 October
8. (with Fiona Tregenna), [A Study on Manufacturing, Productivity and Innovation in South Africa: A Comparison with the BRIC Countries.](#) African Development Bank, Johannesburg. July 2012
9. [The Untold Story: Structural Change for Poverty Reduction – the Case of the BRICS. A Country Case Study: South Africa.](#) United Nations Industrial Development Organisation (UNIDO), Vienna. September 2012
10. [Rethinking South Africa's Labour Market. Lessons from Brazil, India and Malaysia.](#) Center for development and Enterprise (CDE) Focus papers (January) 2013
11. [Policy Gridlock: Comparing the proposals made in three economic policy documents.](#) Center for Development and Enterprise (CDE) Focus Papers (September) 2013
12. [An EPZ for Nelson Mandela Bay Metro.](#) Center for Development Enterprise, Growth Series. Report No. 7 (2016)
13. [South Africa's Industrial Policy: time for a review and a rethink.](#) Center for Development and Enterprise (CDE) Viewpoints. No. 8. 2019.

SELECTED NEWSPAPER AND BUSINESS PUBLICATION FEATURE ARTICLES

1. (with Dave Lewis) 'Skills shortage result of voodoo economics' [Business Day](#), op. ed. February 19, 1997
 2. (with William Blankley) 'No competitiveness without innovation' [Business Day](#), op. ed. February 11, 1998
 3. (with J-B Meyer) Brain drain saps skills but increases linkages abroad [Business Day](#), feature 27 August, 1999
 4. Driving Competitiveness: The New Industrial Strategy [Sunday Independent, Business News](#), Sunday 10 June, 2001
 5. DTI's Expansive Vision [Financial Mail](#), August 10, 2001
 6. Trade and industrial policy. DTI Should Get Back to Business. [Financial Mail](#). September 19, 2003
 7. South African Exports. Out of the Picture [Financial Mail](#), May 28, 2004
 8. Western Cape Economy. Help for the Hopefuls. [Financial Mail](#). June 17, 2005
 9. MIDP link to car prices must not be ignored. [Business Report](#). October 20, 2005
 10. (with Vijaya Ramachandran) Four Major Obstacles to Growth. [Business Report](#), January 24, 2006
 11. (with Alan Levin) Sever the bonds of broadband access – or SA will pay a heavy price. [Cape Argus](#), June 8, 2006
 12. Labour is like tomatoes; the greater the shortage, the higher the price. [Business Report](#), May 29, 2007
 13. (with Krista Tuomi) Crime, labour top foreign investors' worry list. [Business Report](#), July 13, 2007
 14. Fix for skills crunch. On my Mind. [Financial Mail](#), August 24, 2007
 15. (with Anil Sinha) Focus on intellectual property is key to corporate survival. [Business Report](#). 2/04/2008
 16. (with Lawrence Edwards) Wrong on Walmart. [Financial Mail](#). 1/12/2011
 17. Special report : Science and Innovation in South Africa. [Business Day](#). 7/02/2012
 18. (with Thomas Hoeppli) Out on the tide. A ceaseless brain drain. [Financial Mail](#). 23/03/2012
 19. Rethinking state support for high-tech start ups. [Business Day](#). 24/04/2012
 20. Science and Innovation in SA: numerous articles. [Business Day](#), Special, 07/02/2012
 21. Policy failing to grasp full potential of SA's world-leading mining equipment sector. [Mining Weekly](#), 20/07/2012 (Cover story)
 22. (with Ann Bernstein) Clear policy choices are needed, not conflicting plans. [Business Day](#). 30/10/2013
 23. (with Ann Berstein) We can open portal for jobs if we just try something new. [Business Day](#) 19/05/2016
 24. The National Minimum Wage Panel Report: No numbers. No direction. [Daily Maverick](#) 28/11/2016
 25. Clarity and contested numbers: a reply to Imraan Valodia. [Daily Maverick](#). Op ed. 31/01/2017
 26. (with Nicoli Natrass) Mechanisation is but one reason why minimum pay could eliminate jobs. [Business Day](#) 3/03/2017
 27. (with Thomas Hoppli) Exodus of wealthy and skilled South Africans is increasing [Business Day](#), Opinion Piece 18/04/2019
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28. Packing for Perth: Skills flight is a reality and we must plan for it. Daily Maverick op. ed. 03/10/2019
29. Industrial policy cannot be same old story on repeat amid lagging growth. Business Day Live. 06/10/2019

SELECTED CONFERENCES

1975- 1994

1. Political Economy of South Africa. Oxford University 1975. Paper: 'Capitalist Development in South Africa. Class Conflict and the State'.
2. OECD Conference on Adjustment Assistance. OECD Paris, France, November 1974. Paper: 'Adjustment assistance programs and their role in promoting trade between developed and developing countries.'
3. Conference on the Labour Process in Honour of Harry Braverman. State University of New York, Binghamton, April 1978. Paper: 'Deskilling and fragmentation in the context of a racially hierarchical division of labour: A case study of the South African Iron and Steel Corporation'.
4. Prime Ministers Economic Conference. Harare, Zimbabwe, 1981
5. American Allied Social Sciences Associations. Section on the Internationalisation of Capital. Washington DC, 1981, Paper: 'A preliminary survey of South African direct foreign investment in the contemporary period: Characteristics and explanations'.
6. Southern African Studies-Retrospect and Prospect. Centre of African Studies, University of Edinburgh, May-June 1983, Paper: 'South African Foreign Investment Abroad'. (British Council Fund for Distinguished Overseas Academics.)
7. European Associations of Development Research and Training Institutes IV General Conference. Development and Cooperation: European Initiatives. Madrid, Spain, 3-7 September 1984. Paper: 'The internationalisation of South African Capital: South African direct foreign investment in the contemporary period'.
8. Technology and Social Change. University of Edinburgh, Centre for Canadian Studies, June 1986. Paper: 'The South African capital goods sector with a special reference to the Machine Tool Industry.'
9. IDHEAP Colloquium on the Future of the South African Economy, Lausanne, Switzerland, July 1989. Paper: 'The South African capital goods sector: Prospects for development in the post- apartheid era'.
10. Consultative Workshop. South Africa: Towards a Post-apartheid Economy. Harare, 24/8-2/5, 1990. Organised by the ANC, DEP, COSATU and the Economic Trends Group. Paper: 'State Policies with Respect to Telecommunications - Current Practice and an Alternative Approach'.
11. Congress on Democratic Telecommunications Policy for a New Non-Racial South Africa. Carlton Centre, Johannesburg, 25th and 26th July, 1991. Organised by the ANC. Paper: 'The South African Telecommunications Equipment Industry, the Current Crisis and Some Proposals for Reform'.
12. University of the Witwatersrand, Centre for Continuing Engineering Education. The Local Manufacture of Electronic Products, August 1991, Paper: The Local Telecommunications Industry - Can it survive?
13. European University Institute, Florence and Centre for European Studies, Budapest Conference: The Efficient Society? Competition, Cooperation and Welfare. Budapest, Sept. 1991
14. Canadian Association of African Studies Conference - The Role of African Studies in the 1990's. Montreal, May 1992. Paper: 'Current Technological Capabilities in South Africa - Some proposals for reform.'
15. ORSTOM-UNESCO - 20th Century Science: Beyond the Metropolis. Paris, Sept. 1994. Paper: 'Science and Technology in a Democratic South Africa: What has the new government inherited and what are the major policy changes?'

1995 - Present

1. South African Industrial Policy' South African Policy Dialogue. Institute of Development Studies, University of Sussex, Brighton, England, October 5, 1996. (Presentation at a closed meeting of 50 persons including business leaders, e.g. Derek Keys, the Governor of the Bank of England, and political leaders, e.g. Lord Callaghan, Lord Healey. South Africa's policies were explained by a number of key government officials with Deputy President Thabo Mbeki as the main speaker).
 2. 'Industry/Academic/Government Cooperation in Technological Innovation and Human Resource Development in South Africa' The International Conference on Industry/ University/ Government Collaboration. Istanbul, Turkey June 24-26, 1996 UNESCO Chair on Megatronics, Bogazici University (with Tjaart J. van der Walt, Director: Industry, FRD)
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3. 'Migration of the Professional, Semi- Professional and Technical Occupations in South Africa: Past Patterns, Current Trends and Policy' International Scientific Migrations Today, New Problematic. Santa Fe de Bogotá, Colombia June 24-26, 1996 ORSTOM and National University of Colombia
 4. 'Innovation in South African Manufacturing Firms: A Report on some Recent Research' Southern Africa in Global Context, Durban July 7-11, 1996 South African Sociological Association
 5. 'Reform of the South African Telecommunications Sector - Some ramifications thereof'. (With R. Braun and R. Horwitz) South Africa Conference of the Institute of Electrical and Electronic Engineers, Stellenbosch, 25-27 September, 1996
 6. 'Innovation and South African Manufacturing Firms - A Review of the evidence and Some Policy Implications' Trade and Industrial Policy Secretariat, Annual Forum Muldersdrift, September 1997
 7. 'Democratisation and the Reform of S&T Policy in South Africa'. The Politics of Economic Reform. ISP - Development Bank of South Africa January, 1998.
 8. 'Trade and Industrial Policy on an Uneven Playing Field: The Case of the Deciduous Fruit Canning Industry in South Africa' Trade and Industrial Policy Secretariat, Annual Forum, Muldersdrift, September 1998
 9. 'The Economics of Technological Change: It's Impact on the Restructuring of the South African S&T System'. United Nations University. International Conference - The Economics of Industrial Structure and Innovation Dynamics. Centro Cultural de Belem, Lisbon, Portugal. 16-17, October, 1998
 10. 'Utilizing the Intellectual Diaspora - the South African Network of Skills Abroad {SANSAN}', 1999 African Business Conference, Harvard Business School, Harvard University, Boston, January 30 1999
 11. 'The Prospects for Investment in South Africa', ABN-AMRO and Bureau of Economic Research. Fixed Investment in South Africa, Feb.27, 2001
 12. 'An Industrial Strategy for South Africa', Bureau of Economic Research Conference, Johannesburg, June 1, 2001
 13. 'Modalities of Donor Support for Demand Driven Research in the South. A Summary of Research Findings.' Department of International Development, United Kingdom, Building Socio-Economic Research Capacity, Durban, 12-13 June, 2001
 14. Competitiveness and Development. International Seminar. Ministry of Foreign Affairs and the Korean Institute for International Economic Policy and UNCTAD. Seoul, Korea. July 2002
 15. A Review of South Africa's Post-1994 Industrial Performance and Industrial Policy. Plenary Paper. DPRU-TIPS Forum 2003'
 16. Technology and the Growth of Manufactured Exports: Assessing South Africa's Performance and Policy' DRUID Summer Conference. Industrial Dynamics, Innovation and Development. Elsinore, Denmark. June 2004
 17. 'South Africa Technology Based Exports: An Aggregate Assessment and Some Case Studies' World Bank PREM Conference, Washington D.C. April, 2006
 18. 'The Microeconomic Development Strategy (MEDS). Presentation to the Bureau of Economic Research Conference, Somerset West, November 9, 2006
 19. 'Policies and Programmes to Support Innovation in High-Technology Firms in South Africa' World Bank, Global Forum. Building Science, Technology and Innovation Capacity for Sustainable Growth and Poverty Reduction, Washington D.C. February 13-15, 2007
 20. 'South Africa's Industrial Policy – some reflections on the perspectives of Sanjaya Lall' Conference in Honour of Sanjaya Lall. UNCTAD, Geneva. March, 2007.
 21. 'Measuring South Africa's Innovation: High Technology Exports, Macro and Micro Data'. Measurement of Innovation in Developing Countries. MERIT, Maastricht., May 2007
 22. 'Science and Technology Policy in South Africa: A Critical Assessment of Past Performance and Future Directions' Confronting the Challenges of Technology for Development: Experiences from the BRICS. Conference in Honour of Sanjaya Lall. Oxford, 29-30 May, 2008.
 23. 'The South African Mining Equipment and Specialist Services – Technological Capacity and Export Performance' Globelics Annual Conference Kuala Lumpur. Malaysia, 2010 (November)
 24. Knowledge Flows and Technological Catch Up' Plenary Paper. GLOBELICS Annual Conference, Kuala Lumpur, Malaysia, 2010 (November)
 25. 'Fostering Technology Absorption in Export Oriented Manufacturing Firms in Four Southern African Countries. GLOBELICS Annual Conference, Buenos Aires, Argentina, 2011 (November)
 26. 'Well-functioning industry clusters and supply chains as pre-requisites for diversification and sustainable export promotion in Africa: opportunities and prospects. African Exim Bank 2013 (June) Addis Ababa
 27. 'The state of the South African Manufacturing Sector' Bureau for Economic Research (BER) 2013 (Nov.) Somerset West
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28. Pro-poor innovation: a new paradigm? Promoting Responsible Research and Innovation. First Meeting. 2013 (March) Paris 'Inclusive Innovation' Open University, Milton Keynes (July)
29. 'The transformation for imitation to innovation in emerging economies.' Plenary address. 6th Annual Conference of the Academy of Innovation and Entrepreneurship. Oxford 2013 (August)
30. 'Technology Intensive Manufacturing and Innovation in South Africa: A comparison of the BRIC Countries; An Empirical Examination of Technology Based Firms.' GLOBELICS. Ankara 2013 (September)
31. 'Inclusive Innovation: Market and Non-Market Determinants.' High Level Symposium on Innovation and Inclusive Growth. Growth Dialogue and World Bank 2014 (January)
32. 'Science, Technology and Innovation in South Africa: the Global and the National Context.' South African Research and Innovation Management (SARIMA) 2019 Somerset West (03-06 September)

SELECTED CONFERENCE ORGANISATION

1. Technology and Reconstruction Colloquium. University of Cape Town 1991
2. Member of Four-person Scientific Organising Committee for the Conference, International Scientific Migrations Today. New Problematic. Santa Fe de Bogotá, Colombia June 24-26, 1996 - ORSTOM and National University of Colombia.
3. Member of the Social Sciences Studies Programme (SSSP) Steering and Conference Committee, Intellectuals and the production of knowledge for policy. Cape Town, April 19-20, 1996. Human Sciences Research Council, Centre for Science Development, SSSP.
4. Chair of the Scientific Committee and Member of the Organising Committee, Innovation and Development Globelics International Conference. Tshwane, October 2006
5. Organiser and Chair, Roundtable on the Economics of Intellectual Property with the World Intellectual Property Organisation (WIPO). Cape Town May 3-4, 2007
6. South African Association of Canadian Studies (Vice-Chair) Workshop on the Programme for Research Chairs in Higher Education Institutions. Cape Town, February, 2008.

EDITORIAL BOARDS SERVICE

1. Transformation. University of Natal
2. The Communication Review. University of California, San Diego
3. Science, Technology and Society. ORSTOM (Paris); CSIR/NISTADS (Delhi)
4. Trade and Industry Monitor. Produced by the DPRU in conjunction with the Trade and Industrial Policy, Secretariat
5. The South African Journal of Science. Pretoria.
6. Sisebenza Sonke. Journal of the Department of Trade and Industry
7. International Journal of Technological Learning, Innovation and Development.

SELECTED POLICY WORK

Government

1. Member of the Advisory Persons Group, Department of Posts and Telecommunications, Green Paper on Telecommunications Policy, January - June 1995
 2. Coordinator of the Task Team that produced the Department of Arts, Culture, Science and Technology, Green Paper on S&T, December 1996
 3. One of four "critical readers" for the Department of Arts, Culture, Science and Technology, Draft White Paper on S&T, June 1996
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4. Member of the Presidential Commission to Investigate the Development of a Comprehensive Labour Market Policy, March 1995 - June 1996.
Report Presented to President Mandela, June 19 1996
5. Member of the DACST Appointed Panel for the Review of the CSIR. Report completed, December 1997.
6. 5 Year Review of the CSIR. CSIR Pretoria. (One of 5 member team chaired by CEO CSIR India). Report completed September, 2003
7. Advanced Manufacturing Technology Strategy for the Western Cape. CSIR and DST. Advisory Board
8. Member of the National Advisory Council on Innovation (NACI), Sept. 1998 – 2004 (May) Advisory Council to the Minister of Arts, Culture, Science and Technology
9. Chief Economist, Department of Trade and Industry, 2000-2003.
10. Review Team, ASGISA. National Department of the Treasury, 2007.
11. Chief Economist, Department of Economic Development and Tourism Provincial Government of the Western Cape 2004- 2010 (March)
12. Western Cape Government Department of Economic Development and Tourism. Provincial Microeconomic Strategy. Coordinator. 2004-2010
13. Engaged through Premier's Office in developing an Economic Strategy for the Western Cape, 2010.
14. Report on Industrial Policy – National Planning Commission. May 2011
15. Report on Encouraging High Potential SMMEs – National Planning Commission. May 2011.
16. Report on the role of business for the Ministerial Committee on Science and Technology, 2012
17. Advisory Panel, Review of SPII, IDC. 2013
18. Advisory panel for NACI projects on S&T Indicators and S&T framework, 2013 -2014.
19. Board Member, Technology Innovation Agency 2013- 2017 .
20. Team member NACI Review of the S&T White Paper, 2015.
21. National Advisory Council on Innovation (NACI) The State of Technology Diffusion in South Africa 2017 –
22. National Advisory Council on Innovation (NACI) Indicators for the Bio-economy strategy 2017 – 2019.
23. National Advisory Council on Innovation (NACI) Reference Group South African Indicators 2020 Report 2019 -

Non- Government

1. IDRC Mission. Economic Analysis and Policy Formulation for Post-Apartheid South Africa. (Part-time member) August 1991
 2. IDRC Mission. Towards a Science and Technology Policy for South Africa. (South African participant). July 1993 (with Gideon de Wet) 'Proposals for a Future National Science and Technology Management System in South Africa' produced for The S&T Initiative of South Africa by means of funding provided by the IDRC Canada. (Project Leader) May 1994
 3. Comparative study of the impacts of donor-initiated programmes on research capacity in the south DGIS Ministry of Foreign Affairs, the Netherlands. (Africa coordinator) 1998-2000
 4. Review of IDRC Programmes for SMME's. IDRC, Ottawa. (Two person review) 1999.
 5. The Investment Climate Survey. Department of Trade and Industry and World Bank. Consultant (to the World Bank)
 6. Fiscal Incentives to promote Business Sector R&D. NACI Project. Project Leader.
 7. Engaged by World Bank in two projects: Closing the Skills and Technology Gaps, 2009-2011 and 'Fostering Technology Absorption in Enterprises in Southern Africa' 2010-2011.
 8. International Growth Center: Zambia country programme
 9. Global Network for the Economics of Learning, Innovation and Competence Building Systems (GLOBELICS) Board Member 2003 - 2018 .
 10. African Network for the Economics of Learning, Innovation and Competence Building Systems (AFRICALICS) Board Member 2012 - present.
 11. Engaged by Business Leadership South Africa to undertake work on the National Minimum Wage
 12. Training course, The Design and Evaluation of Innovation Policy (under auspices of the United Nations University: courses in Cote d'Ivoire (2017) Morocco (2018) India (2019).
 13. Presentations to Seminaire: Analyse multisectorielle de la dynamique s'Innovation: Etat des lieux et perspectives. Akgiers (2019)
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References are available on request.