

**Rasigan Maharajh, PhD.**Personal Details

Date of Birth 8 November 1969  
 Place of Birth Durban, eThekweni, KwaZulu-Natal, South Africa  
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 Race<sup>1</sup> Black  
 Gender Male  
 Civil Status Single, in Domestic Partnership, with one Child.

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<sup>1</sup>Nota bene: The use of this appellation is not an endorsement of the *racialised* categorisation nor designation. Rather, it reflects a historically-determined nomenclature established by apartheid regime in the Republic of South Africa through the Population Registration Act No 30 of 1950 for the purposes of establishing and maintaining political segmentation, social segregation, and economic stratification. This *indignant* (sic) legislative instrument was repealed on the 28<sup>th</sup> of June 1991, prior to the advent of national democracy in 1994.

## Brief Biographical Note

Rasigan Maharajh is concurrently Nodal Head of the Department of Science and Technology and National Research Foundation' Centre of Excellence in Scientometrics and Science, Technology and Innovation Policy; the founding Chief Director of the Institute for Economic Research on Innovation at Tshwane University of Technology; Professor Extraordinary at the Centre for Research on Evaluation, Science and Technology of Stellenbosch University; an Associate Research Fellow of the Tellus Institute in Boston; and the Chairperson of the Southern Africa Node of the Millennium Project.

Rasigan was previously: Visiting Professor at *Rede de Pesquisa em Sistemas e Arranjos Produtivos e Inovativos Locais* in the *Instituto de Economia* of the Federal University of Rio de Janeiro, Brazil; Visiting Research Scholar at the George Perkins Marsh Institute of Clark University, USA; Head of Policy at the Council for Scientific and Industrial Research; and National Coordinator of the Science and Technology Policy Transition Project for South Africa's first democratic government. Before these deployments, Rasigan was: Senior Researcher at the Education Policy Unit of the University of Natal; National Coordinator and Researcher at Operation Upgrade of Southern Africa; Research Assistant at the Macro-Education Policy Unit of the University of Durban-Westville; Research Assistant at the Labour and Community Project of the South African Council for Higher Education; and a Casual Labourer at Pick and Pay Supermarkets. During the struggle against the apartheid regime, Rasigan held elected leadership positions within the: United Democratic Front, Congress of South African Trade Unions, and the African National Congress.

Rasigan was awarded a Doctor of Philosophy degree by the *Forskningspolitiska Institutet* (Research Policy Institute), School of Economics and Management, Lund University, Sweden; and he is also an alumnus of the University of KwaZulu-Natal of South Africa and the Harvard Business School of the United States. Rasigan is a Ministerial Representative on the Council of Rhodes University and an elected Senator of Tshwane University of Technology. Since 2004, Rasigan has contributed to more than 65 publications, and has presented his research in 40 countries.

## Declaration of Interest

Venture	Name	Status	Entity Details and Registration <sup>2</sup>
Enterprises	Southern African Node of the Millennium Project	Chairperson of the Board of Directors	2007/025306/08 <a href="http://www.sampnode.org.za">www.sampnode.org.za</a>
	Freedom to Innovate South Africa	Member of the Board of Directors	2006/020829/08
Academia	<u>International Journal of Economic Policy in Emerging Economies</u>	Peer Reviewer (2018 - )	ISSN online: 1752-0460 and ISSN print: 1752-0452 <a href="http://www.inderscience.com/jhome.php?jcode=ijepee">http://www.inderscience.com/jhome.php?jcode=ijepee</a>
	<u>Journal of Economic Policy Reform</u>	Peer Reviewer (2017 - )	Print ISSN: 1748-7870 Online ISSN: 1748-7889 <a href="http://www.tandfonline.com/toc/gpre20/current">http://www.tandfonline.com/toc/gpre20/current</a>
	<u>Minerva: A Review of Science, Learning and Policy</u>	Peer Reviewer (2017 - )	ISSN: 0026-4695 (print version) ISSN: 1573-1871 (electronic version) <a href="https://link.springer.com/journal/11024">https://link.springer.com/journal/11024</a>
	<u>Journal of S&amp;T Policy and R&amp;D Management</u>	International Board of Editors (2016 - )	e-ISSN: 2407-8271 <a href="http://wartakiml.pappiptek.lipi.go.id">http://wartakiml.pappiptek.lipi.go.id</a>
	<u>Acta Academica</u>	Peer Reviewer (2016 - )	e-ISSN: 0587-2405 <a href="http://apps.ufs.ac.za/kovsiejournals/default.aspx?journal=19">http://apps.ufs.ac.za/kovsiejournals/default.aspx?journal=19</a>
	CAAST-Net Plus	External Advisory Committee (2013 - 2017)	Science, Technology and Innovation Cooperation between Sub-Saharan Africa and Europe <a href="http://www.caast-net-plus.org/">http://www.caast-net-plus.org/</a>
	<u>Energy Policy</u>	Peer Reviewer (2013 - )	ISSN: 0301-4215 <a href="http://www.journals.elsevier.com/energy-policy">http://www.journals.elsevier.com/energy-policy</a>
	<u>Foresight</u>	Peer Reviewer (2011 - )	ISSN: 1463-6689 <a href="http://www.emeraldinsight.com/loi/fs">http://www.emeraldinsight.com/loi/fs</a>
	<u>South African Journal of Science</u>	Peer Reviewer (2005 - )	e-ISSN: 1996-7489 <a href="http://www.sajs.co.za/">http://www.sajs.co.za/</a>
	Urbanafrika.net	Advisory Board	Member <a href="http://www.urbanafrika.net/about/">http://www.urbanafrika.net/about/</a>
	AfricaLICS	Scientific Board (2012 – 2017)	Member <a href="http://www.globelics.org/regional-lics/africa-lics/">http://www.globelics.org/regional-lics/africa-lics/</a>
	Tshwane University of Technology	Senate (2012 - 2015) (2015 – 2017) (2017 – 2019)	Elected Member <a href="http://www.tut.ac.za/">http://www.tut.ac.za/</a>
	Rhodes University	Council (2012 – 2016) (2016 – 2019)	Ministerial Appointee <a href="http://www.ru.ac.za/">http://www.ru.ac.za/</a>
	Annual GLOBELICS International Conference (III, IV, VI, VII, VIII, IX, X, XI, XII, XIII, XIV, XIIV)	Scientific Review Committee: Tshwane 2005, Trivandrum 2006, Mexico City 2008, Dakar 2009, Kuala Lumpur 2010, Buenos Aires 2011, Hangzhou 2012, Ankara 2013, Addis Ababa 2014, Havana 2015, Bandung 2016, Athens 2017, Accra 2018.	Global Network for Economics of Learning, Innovation, and Competence Building Systems <a href="http://www.globelics.org">http://www.globelics.org</a>
	LAUNCH Council	International Council (2010)	USA-Based Collaboration between NIKE Incorporated, National Aeronautics and Space Administration, United States Agency for International Development, and the US Department of State <a href="http://launch.org">launch.org</a>
	XXV World Conference of the International Association for Science Parks	International Scientific Committee (2008)	International Association for Science Parks <a href="http://www.iasp.ws/publico/index.jsp?enl=5">www.iasp.ws/publico/index.jsp?enl=5</a>
	Atlanta Science and Technology Policy Conference	Scientific Advisory Committee (2007)	Georgia Institute for Technology and National Science Foundation of United States of America <a href="http://www.atlantaconference.org/past-conferences/2007/index.php">www.atlantaconference.org/past-conferences/2007/index.php</a>
	<u>Innovation and Development</u>	Scientific Committee (2011 - )	Routledge (Taylor and Francis group) <a href="http://www.tandf.co.uk/journals/RIAD">http://www.tandf.co.uk/journals/RIAD</a>
	<u>African Journal of Science, Technology, Innovation and Development</u>	Editorial Committee (2009 – 2012)	ISSN: 2042-1338 (print) ISSN: 2042-1346 (online) <a href="http://www.ajstid.com">www.ajstid.com</a>
	<u>Innovate! South African Innovator</u>	Contributing Editor (2006 – 2009)	Eclectic Media House
<u>The Journal of Convergence: Excellence in Transition</u>	Advisory Committee (2004 – 2007)	Axius Publishing Limited <a href="http://www.axius.co.za/?q=con.15.Archive">http://www.axius.co.za/?q=con.15.Archive</a>	

<sup>2</sup> Registered at the Companies and Intellectual Property Commission of the Department of Trade and Industry of South Africa.

## Education and Training

### General Education and Training

1987: Reservoir Hills Secondary School (South Africa), **Matriculation**.

### Higher Education and Training

2011: Lund University (Sweden): **Doctor of Philosophy**, Forskningspolitiska Institutet, School of Economics and Management; Dissertation Title: Innovating beyond Racial Capitalism: A Contribution towards the Analysis of the Political Economy of Post-Apartheid South Africa. Supervised by Claes Brundenius, Mats Benner and Mikael Klintman; Public Defence Chaired by Christer Gunnarsson; and Opponent: Luc Soete.

1999: Harvard University (United States of America): **Senior Executive Programme for Southern Africa**, Harvard Business School, [Alumnus Status].

1994: University of KwaZulu-Natal, (South Africa): **Bachelor of Arts (Honours)** Economic History, Dissertation Title: Conceptualising the Transition in South Africa: 1990 – 1994, Supervised by Bill Freund.

1993: Harvard University (United States of America): **Education Policy Analysis and Planning Certificate**, Harvard Institute for International Development, Kennedy School of Government.

1992: University of KwaZulu-Natal (South Africa), **Bachelor of Arts**, Majoring in Economic History and Sociology.

### Further Education and Training

2004 - Cynefin Centre for Organisational Complexity: Complexity Fundamentals and Certification Course: Taught by Dave Snowden; Participation sponsored by IBM and CSIR.

1999 - Think Tools AG: Basic, Intermediate and Advance Methodology and Application Modules: Taught by Albrecht von Müller; Participation sponsored by German Technical Cooperation (GTZ) and CSIR.

1998 - Council for Scientific and Industrial Research: Advanced Leadership Programme *Certificate of Outstanding Merit*.

1998 – 1997 - Global Business Network (GBN): Basic and Advanced Scenario Development and Planning Modules: Taught by Napier Collins, James Ogilvy, and Peter Swartz; Participation sponsored by Department of Arts, Culture, Science and Technology of South Africa.

1993 - Development Contact Network (DCN): Logical Framework Matrix Methodology: Participation sponsored by the European Commission.

## Employment History

2015 – 2018	Professor Extraordinary	Centre for Research on Evaluation, Science and Technology (CREST), Faculty of Arts and Social Sciences, Stellenbosch University (SU), RSA. <i>CREST is an interdisciplinary research and academic centre established on the 1<sup>st</sup> of January 1995 and conducts research on the: nature of science and technology with specific focus on science policy issues in South Africa and on the African continent; nature and state of knowledge production in the higher education sector in South Africa and selected African universities; the methodology and sociology of science; and the nature of monitoring and evaluation studies.</i>
2014 - current	Node Head	Department of Science and Technology and National Research Foundation' Centre of Excellence in Scientometrics and Science, Technology and Innovation Policy (SciSTIP) Management Committee, and Steering Committee <i>SciSTIP was launched on the 3<sup>rd</sup> of April 2014 and is a national CoE focusing on the sociology of science, science policy issues and knowledge production in higher education. Its work contributes to improved decision making in STI policy and consolidates the national information systems in science and technology in South Africa.</i>
2004 - current	Chief Director	Institute for Economic Research on Innovation (IERI), Faculty of Economics and Finance, Tshwane University of Technology (TUT), RSA <i>IERI was launched by the Ministry of Science and Technology on the 11<sup>th</sup> of September 2004 and is a public-good research agency based within the largest public residential higher education institution in South Africa. IERI conducts scientific- and policy- orientated research within the disciplinary parameters of evolutionary political economy. IERI is also the hub of a network of experienced and engaged intellectuals, knowledge-brokers and research collectives specialising in matters relevant to Evolutionary Economics, Systems of Innovation, Science and Technology Studies, Research and Development Metrics, and Public Policy. IERI works along and across the Knowledge-Generation, -Diffusion and -Evaluation spectrum.</i>
2013 - current	Associate Research Fellow	Tellus Institute, Boston, Massachusetts, USA <i>Tellus was established in 1976 as an interdisciplinary not-for-profit research and policy organization. It conducted 3,500 projects throughout the world, and became an international leader in resource and environmental strategies and in helping shape the then embryonic field of sustainable development. Tellus has worked at every geographic level – global, regional, national, local, and enterprise – bringing both vision and analytic rigor to fashioning strategies, policies, and decision-support tools. Its projects have been distinguished by an integrated perspective in order to illuminate the important linkages across spatial scales and among environmental, social, and economic dimensions of development. Key foci have included energy, water, sustainable communities, corporate social responsibility, and climate change.</i>
2014 – 2015	Visiting Professor	Rede de Pesquisa em Sistemas e Arranjos Produtivos e Inovativos Locais (RedeSist), Instituto de Economia (IE), Federal University of Rio de Janeiro (FURJ), Rio de Janeiro, Brazil <i>The Research Network on Systems and Local Innovative and Productive Arrangements is a network of interdisciplinary research established in 1997 at the Institute of Economics of the Federal University of Rio de Janeiro. It enjoins the participation of various universities and research institutes in Brazil, and maintains partnerships with other institutions in Latin America, Europe and Africa and Asia. The focus of the network is informed by changes associated with the transition from the Industrial Age to the Knowledge Age that impose the necessity of developing a new analytical framework that allows understanding the socio - techno-economic patterns emerging worldwide and their impact on competitiveness and developing countries like Brazil. As an alternative to the traditional focus on economic sectors and individual companies, RedeSist has been developing the concept and methodological approach focused on arrangements and local production and innovation systems.</i>
2014 – 2015	Visiting Scholar	George Perkins Marsh Institute, Clark University, Massachusetts, USA <i>The George Perkins Marsh Institute of Clark University has nearly a century of applied research experience. The Institute advances scientific understanding of the ways in which human's influence--and are influenced by--the surrounding natural, technological and socioeconomic environments. Working within a collaborative agenda, the Institute coordinates resources from Clark University and elsewhere to study human transformation of the environment and responses to this change. Among the hallmarks of the Institute are collaborative research efforts that challenge traditional disciplinary boundaries in search of novel approaches and solutions, along with systems-based perspectives to wicked challenges such as climate change and human development.</i>

2002 – 2004	Corporate Group Head	CSIR Policy Group, Council for Scientific and Industrial Research (CSIR), RSA <i>The CSIR Policy Group formed the corporate core of an organisationally distributed research apparatus mainly conducting highly sensitive policy support work, primarily for the Public Sector. It operated, as a virtual centre of excellence capable of constituting specialised teams' correspondent with programme specifications. As a preferred supplier of knowledge-intensive services, it performed the role of a broker across the different tiers and spheres of the public sector. The CSIR Policy Group networked effectively into the global, continental and local domains of Science and Technology, Political Economy and Socio-economic Development.</i>
1999 – 2002	Centre Manger and Divisional Technology Investment Manager	Manufacturing Policy Centre, CSIR <i>The Manufacturing Policy Centre (MPC) was established in 1999 and was located in the Manufacturing and Materials Division of the CSIR. The aim of this group was to support the South African manufacturing sector to survive, grow and compete globally. The MPC offered its clients integrated policy development and strategy support, through its linkages with the organised institutions representing Capital, Labour and the State. The MPC concentrated on assisting government in developing policies while working with industrial sectors and labour in the interpretation and implementation of such policies. The Centre included Futures Research and Knowledge Management as programme areas. Besides overall responsibility for the Centre, being the Divisional Technology Manager required a competence in managing the allocation of investments from the Parliamentary Grant across the Division. In 1999/00, this represented the largest segment of public funding to the CSIR (ZAR 43 million). My specific responsibilities relate to securing this amount, establishing the process to determine its deployment, monitoring and evaluating the output and management of the Intellectual Property generated.</i>
1997 – 1999	Programme Manager	Policy Studies Unit, CSIR <i>The role of the Policy Studies Unit was to support and empower the organisation in striving for excellence in the field of innovation by providing intellectual inputs grounded in a thorough understanding of the local, regional, national, sub-regional and global context prevalent in a time-specific milieu. It achieved this through utilising the tools of action-orientated and scholarly research, to contribute towards the formulation of policy, which reflected the realities of South Africa, and thereby enhanced the abilities of the operational arms of the organisation to better contribute towards making their technology contribution towards growing the economy and reconstructing the society. It also developed the potential to achieve an income generating profile based on its strategic position. The primary outputs included direct interventions in the formulation of government policy and the provision of long-term planning resources to both internal (divisional) and external (Public and Private sector) clients. Primary clients include internally: Executive, Divisional Directors, Programme Managers, Project Leaders and Researchers; and externally: Civil Society, South African Government, the Private Sector, Parastatals and International Organisations.</i>
1995 – 1997	National Coordinator	Science and Technology Policy Transition Project, International Development Research Centre (IDRC) <i>The newly established Department of Arts, Culture, Science and Technology (DACST) was mandated to formulate a national science and technology policy for the democratic government of national unity in South Africa. The S&amp;TPTP was the vehicle established to coordinate and facilitate this process. The outcome of which was the White Paper on Science and Technology and associated legislation. This position was a secondment from IDRC to coordinate and facilitate the process. It also involved final authorship of the chapter on Human Resource Development.</i>
1995	Senior Researcher	Education Policy Unit (EPU), University of KwaZulu-Natal
1994 – 1995	National Coordinator	Adult Basic Education and Training Programmes, Operation Upgrade of Southern Africa (OUSA)
1993 – 1994	Network Coordinator	Adult Educator Development Project, OUSA
1993	Researcher	Adult and Vocational Education and Training Policy, OUSA
1992 – 1993	Research Assistant	Macro-Education Policy Unit (MEPU), University of KwaZulu-Natal
1991	Journalist	Youth and Student Political Desk, Africa Information Afrique

1988 – 1990	Organiser and Desktop Publisher	Labour and Community Resource Project (LACOM), South African Council for Higher Education (SACHED)
1988	Editor	Students Representative Council (SRC) Diary, University of KwaZulu-Natal
1985 – 1987	General Labourer (Casual)	Pick n Pay Supermarket, Pick n Pay Stores Limited

## Work in Progress (2018)

National Planning Group: 2050 Global Work/Technology Scenarios

(Established February 2017)

<b>2018</b>
<p>“Reconstructing and Developing beyond Racial Capitalism: South Africa’s Socialist Prospects,” in Brundenius et al. [editors] <u>Possible Socialisms</u>, Springer Press. FORTHCOMING. Co-author with Enver Motala.</p>
<p>“Sustainable Development for Us All: What the BRICS can Do,” <u>BRICS Academic Review</u>, Issue 1, Pages 28-31. I</p>
<p>“Education, the State, and Class Inequality: The Case for Free Higher Education in South Africa,” in Pillay et al. [editors] <u>New South African Review 6: The Crisis of Inequality</u>, Wits University Press, Johannesburg. Pp. 167-182; ISBN: 978-1-77614-055-8. Co-author with Enver Motala and Salim Vally,</p>
<b>2017</b>
<p>“Re-illuminating the Bandung Spirit: Global Science, Technology, Innovation, and Solidarity for Sustainability in the 21st Century CE,” FORTHCOMING.</p>
<p>“Ecocide or Socialism: Ecological Challenges of Neoliberal Capitalism,” Chapter in <u>The Future of the Left – South Africa in a Global Context</u>, Mzala Nxumalo Centre, Pietermaritzburg. FORTHCOMING.</p>
<p>“Realising the World that We Want and Ensuring A Future for All: Science and Technology Collaboration for Enhanced South-South and Triangular Cooperation,” in RIS [editor] <u>Key Takeaways of the 3rd Delhi Conference on South-South and Triangular Cooperation</u>, Delhi. Page 26. ISBN: 81-7122-131-9.</p>
<p>“Sustainable Development (Goals) for Us All,” Paper delivered to the Second Session of the Ninth Academic Forum of Brazil, Russia, India, China, and South Africa on Areas for Deepening BRICS Cooperation and Related Innovation held in Fuzhou, Peoples Republic of China, 10 June.</p>
<p><u>KE NAKO – Research and Innovation for Socio-economic Impact, Now!</u> A Review of the South African Science, Technology and Innovation Institutional Landscape, Tshwane: Ministry of Science and Technology; 30 April, 188 pages. With Abrahams, Lucienne; Thomas Auf der Heyde; Thulani Dlamini; Anne Grobler; Azar Jammine; Bongani Mayosi; Boni Mehlomakulu; Mafika Mkwanazi; Loyiso Nongxa; Sullivan o’Carroll; Helen Rees; and Zebulon Vilakazi.</p>
<p>“Towards the Next-Generation Science and Technology White Paper for South Africa: Innovation for Transformative Change and Inclusive Development: Situational Analysis,” <u>Discussion Document of the National Advisory Council on Innovation</u>, Tshwane, Ministry of Science and Technology; 16 February, 108 pages.</p>
<b>2016</b>
<p>“Racial Capitalism, Apartheid and the Negotiated Post-Apartheid Constitutional Democracy,” Chapter 7 in Mario Scerri [editor] <u>The Emergence of Systems of Innovation in South(ern) Africa: Long Histories and Contemporary Debates</u>, Mapungubwe Institute for Strategic Reflection, New African Publishers, Johannesburg; pp. 179-224. ISBN: 978-1-928341-21-5.</p>
<p>“The Policy Environment and Policy Options for the South African System of Innovation,” Chapter 13 in Mario Scerri [editor] <u>The Emergence of Systems of Innovation in South(ern) Africa: Long Histories and Contemporary Debates</u>, Mapungubwe Institute for Strategic Reflection, New African Publishers, Johannesburg; pp. 351-374. ISBN: 978-1-928341-21-5.</p>
<p>“Re-forming Human Capabilities utilising Science, Technology, and Innovation Policy: The Case of South Africa,” Paper for the 14<sup>th</sup> International Conference of GLOBELICS, Bandung; with Enver Motala.</p>
<p>“Brief International Review of Governance of Science, Technology, and Innovation Landscape Governance: Selected Country Comparisons,” Commissioned Paper for the Ministerial Review Panel on South Africa’s Science, Technology and Innovation Institutional Landscape, Ministry of Science and Technology, Republic of South Africa, Tshwane, October.</p>
<p>“Regulating the New Commons and Related Global Public Goods: A Vision from the Perspective of the BRICS,” Position Paper for the 8<sup>th</sup> BRICS Academic Forum, Goa.</p>
<p>“How to take Free Public Higher Education from Pipe Dream to Reality,” in <u>The Conversation: Africa Edition</u>, 8 June. Co-author with Mondli Hlatshwayo, Zolisa Marawu, Enver Motala, Leigh-Ann Naidoo, and Salim Vally.</p>



<p>“Wellness and Well-being Research in South Africa,” in RIS [editor] <u>Health, Nature and Quality of Life: Towards BRICS Wellness Index</u>, Bengaluru; with Rajen Govender, Aquina Thulare, and Yosuf Veriava, Research and Information System for Developing Countries, New Delhi, pp. 27-40; ISBN: 81-7122-120-3.</p>
<p>“Reflections on the Reform of the Institutions of Economic Governance: Time for Transformation?” Transcript by Andrea Royeppen [Compiler] <u>United Nations @ 70 Proceedings Report</u>, Institute for Global Dialogue and Friedrich Ebert Stiftung, Tshwane; pp. 11-12, ISBN: 978-1-920216-58-0.</p>
<p>“Mapping the STI Institutions of South Africa’s National System of Innovation Landscape,” Commissioned Paper for the Ministerial Review Panel on South Africa’s Science, Technology and Innovation Institutional Landscape, Ministry of Science and Technology, Republic of South Africa, Tshwane, March, with Thulani Dlamini.</p>
<p>“A Methodological Approach for the Ministerial Panel to Review South Africa’s Science, Technology and Innovation Institutional Landscape,” Commissioned Paper for the Ministerial Review Panel on South Africa’s Science, Technology and Innovation Institutional Landscape, Ministry of Science and Technology, Republic of South Africa, Tshwane, February.</p>
<p>“Quality, Free University Education is Necessary - and Possible,” in <u>The Conversation: Africa Edition</u>, 28 January. Co-author with Mondli Hlatshwayo, Salim Vally, Enver Motala, and Leigh-Ann Naidoo.</p>
<p><b>2015</b></p>
<p>“Review of the White Paper on Science and Technology,” Commissioned Report for the National Advisory Council on Innovation, Tshwane; Co-author with David R Walwyn (Project Leader), Andreas Bertoldi, David Kaplan, Sibusiso Manzini, and Enver Motala.</p>
<p>IERI Position Statement on Universal Free Education, with Erika Kraemer-Mbula, and Mario Scerri.</p>
<p>“Digital Liberty, the Knowledge Commons and some Challenges for the Governance of Information and Communication Technologies and the Internet for Brazil, Russia, India, China and South Africa (BRICS),” in Georgy Toloraya [Editor] <u>Proceedings of the 7<sup>th</sup> BRICS Academic Forum</u>, National Committee on BRICS Research, Moscow; pp. 163-188, ISBN: 978-5-394-02691-1.</p>
<p>“Being Well in the Early 21st Century: Contemporary Dynamics in the Political Economy of Health,” Chapter 1 in Jose Eduardo Cassiolato, and Maria Clara C. Soares [editors] <u>Health Innovation Systems, Equity and Development</u>, E-Papers, Rio de Janeiro; pp. 59 – 86, ISBN: 978-85-7650-468-9.</p>
<p>“Rural Health Systems in South Africa,” Chapter 8 in Jose Eduardo Cassiolato, and Maria Clara C. Soares [editors] <u>Health Innovation Systems, Equity and Development</u>, E-Papers, Rio de Janeiro; pp. 211 – 236, ISBN: 978-85-7650-468-9, Co-author with Erika Kraemer-Mbula and Lindile Ndabeni.</p>
<p>“International STI Policy Review: A Situational Analysis of the BRICS,” Commissioned Paper for the National Advisory Council on Innovation, Tshwane.</p>
<p>“Human Resource Development and Capacity Building: A Review of Chapter Nine of the White Paper on Science and Technology,” Commissioned Paper for the National Advisory Council on Innovation, Tshwane; Co-author with Enver Motala.</p>
<p>Chairpersons Report on the Social Sciences Adjudication Panel for Sabbatical Grants to Complete Doctoral Degrees, Reviews and Evaluation Directorate of the Research and Innovation, Support and Advancement Division of the National Research Foundation, Tshwane.</p>
<p>“Betwixt Now and Then: Travails in the Interregnum,” Chapter 7 in Sérgio Eduardo Moreira Lima [editor] <u>Global Governance: Crossed Perceptions</u>, Fundação Alexandre de Gusmão, Brasília; pp. 357 – 394; ISBN: 978-85-7631-538-4.</p>
<p>Chairpersons Report on the Thuthuka Humanities Panel Assessment, Reviews and Evaluation Directorate of the Research and Innovation, Support and Advancement Division of the National Research Foundation, Tshwane.</p>
<p>“The Metabolic Rift, Anachronistic Institutions and the Anthropocene,” in Helene Finidori [editor] <u>Systemic Change, SPANDA Journal</u>: International Journal of the Spanda Foundation, 6 (1), The Hague; pp. 1-10; ISBN: 978-88-7778-145-1 and ISSN: 2210-2175.</p>
<p>H2020-INT-INCO-2015 Independent Observers’ Report, Confidential Commissioned Report for C4 - International Cooperation: Administration and Finance, DG Research and Innovation, European Commission, Brussels.</p>
<p>“Innovation, Indicators and Development Challenges of the BRICS,” in Renato Coelho Baumann das Neves and Tamar Gregol de Faria [editors] <u>Proceedings of the 6th BRICS Academic Forum</u>, Institute for Applied Economic Research, Brasilia; pp. 97 – 110; ISBN: 978-85-7811-242-4</p>
<p>“Persistence and Possibilities: On the Archaic and Planetary Civilisation,” in Andrew Firmin [editor] <u>State of Civil Society 2015</u>,</p>

Civicus: World Alliance for Citizen Participation, Newtown; pp. 102-107.
“Natural Resources and Sustainable Development: A Selected Comparative Analysis of Brazil and South Africa” Centro de Gestão e Estudos Estratégicos, Brasília; Research Brief.
“Left in the City: A Conceptual Contribution on the Right to the City as a Safe and Just Space for Humanity,” in Sergio Veloso and Paulo Esteves [editors] <u>Right to the City for a Safe and Just World: The BRICS Case</u> , BRICS Policy Centre and Oxfam, Rio de Janeiro, pp. 19-36; ISSN: 2357-7681.
“Desenvolvendo sustentabilidade e a emergência de um novo paradigma científico,” Chapter 5 in Jose Eduardo Cassiolato, Gabriela von Podcameni, and Maria Clara C. Soares [editors] <u>Sustentabilidade Socioambiental em um Contexto de Crise</u> , E-Papers, Rio de Janeiro, pp. 141 – 172; ISBN: 978-85-7650-467-2.
<b>2014</b>
“Science and Ideology Revisited: BRICS and the Collapse of the Neoliberal Paradigm in Economics,” Round-table on Economics, <u>Conferência BRICS No Século XXI</u> , Rio de Janeiro, 21st May.
“Expanding Global Development Possibilities: Realising the Potential of Brazil, Russia, India, China and South Africa,” <u>Proceedings of the 5th BRICS Academic Forum</u> , DIRCO and Africa Institute of South Africa, Tshwane; pp. 44-45; ISBN: 978-0-7983-0464-1.
“Whither the African Middle Class in an ‘Africa Rising’?” in <u>Perspectives Africa</u> , Issue 1, February 2014, pp. 39 – 44, Heinrich-Böll-Stiftung; Co-author with Alinah Segobye, Alioune Sall, and Geci Karuri-Sebina.
<u>Inequality and Development Challenges</u> , Routledge, New Delhi and Abingdon; ISBN: 978-0-415-71032-9; Co-editor with Maria Clara Couto Soares, and Mario Scerri.
“The Co-evolution of Innovation and Inequality,” Chapter 1 in Soares et al [editors] <u>Inequality and Development Challenges</u> , Routledge, New Delhi and Abingdon; pp. 1 – 18; ISBN: 978-0-415-71032-9; Co-author with Maria Clara Couto Soares, and Mario Scerri.
<b>2013</b>
“Urban Inequality in the BRICS,” Chapter 3, in Sergio Veloso [editor] <u>BRICS and the Challenges of Fighting Inequality</u> , Oxfam and BRICS Policy Centre, Rio de Janeiro, pp. 19-30.
“Desigualdade Urbana Nos BRICS,” Chapter 3, in Sergio Veloso [editor] <u>Os BRICS e Seus Desafios no Combate a Desigualdade</u> , Oxfam and BRICS Policy Centre, Rio de Janeiro, pp. 20-31.
“Innovation, Economic Development and Social Upliftment,” Commissioned Paper for the National Advisory Council on Innovation, Tshwane; Co-author with Mario Scerri.
“The Contemporary Conjuncture, the NDP and the Possibilities for Development,” in <u>NEHAWU Bulletin</u> (May Issue), National Education, Health and Allied Workers Union.
“Research on Innovation Systems and Social Inclusion in Emerging Economies and Beyond: A Case Study of Rural Health Innovation Systems in South Africa,” <u>Research Report</u> ; Co-author with Erika Kraemer-Mbula and Lindile L. Ndabeni.
“The Informal Sector and the Challenges of Development in South Africa” <u>Proceedings of the International Conference on Human Development and Knowledge Economy</u> , Punjabi University, Patiala; Co-author with Lindile L. Ndabeni.
“A System of Innovation that Works: An External Review of the Background Report on the National System of Innovation of the United Republic of Tanzania,” <u>Research Report</u> , Ministry of Communication, Science and Technology, United Republic of Tanzania, Dar es Salaam; Co-author with Mario Scerri and McLean Sibanda.
<b>2012</b>
“Fictions, Factors and Futures: Reflections on Africa’s Impressive Growth” in <u>Development</u> , 55(4), pp. 491-496; Co-author with Geci Karuri-Sebina; Alioune Sall; and Alinah Segobye. ISSN: 1011-6370, Online ISSN: 1461-7072.
“Global Developmental Partnerships beyond 2015,” <u>Commissioned Paper</u> for the United Nation’s High-level Panel on the Post-2015 Development Agenda, Monrovia, Co-author with Alioune Sall.
“Multi-Risk Model and Management Strategies of Climate Change in Nigeria Agricultural Production and Innovation Systems,” in <u>Proceedings of the 4th International Conference on Agriculture and Animal Science</u> , Co-author with Opeyemi Eytayo Ayinde, Mammo Muchie, and Victoria Ojo. DOI: 10.7763/IPCBE. 2012. V47. 18.

<p>“Systemic Technological Innovation in Africa in 2030 C.E.” Chapter 6 in Lundsgaarde, Erik [editor] <u>Africa Toward 2030: Challenges for Development Policy</u>, pp. 198-238, Rethinking International Development Series: Palgrave Macmillan, Hampshire; ISBN: 978-0-230-27990-2; Co-author with Alioune Sall and Geci Karuri-Sebina.</p>
<b>2011</b>
<p>“The Role of STI in the Development of the Least Developed Countries: Challenges and Opportunities,” <u>Commissioned Paper</u> for the United Nations Industrial Development Organisation, Fourth United Nations Conference on the Least Developed Countries (LDC-IV), Istanbul, Co-author with Alioune Sall, African Futures Institute.</p>
<p><u>Innovating beyond Racial Capitalism: A Contribution towards the Analysis of the Political Economy of Post-Apartheid South Africa</u>, Lund Studies in Research Policy 3, Lund University, Lund, 294 pages. ISBN: 978-91-7473-141-5.</p>
<p>“The Green Economy, Poverty, and Global Inequality,” <u>Working Paper of the International Workshop on Biocivilization for the Sustainability of Life and the Planet</u>, FNWG and iBase, Rio de Janeiro.</p>
<p>“Economic Growth and Human Development Challenges for Science, Technology and Innovation in Africa,” Chapter 2 in African Union [editor] <u>African Innovation Outlook 2010</u>, African Union, Addis Ababa; pp. 13-34. ISBN: 978-1-920550-45-5; Co-author with Mario Scerri</p>
<p>“Post-apartheid Higher Education and the System of Innovation: Enduring Challenges,” Chapter 10 in Göransson, Bo and Claes Brundenius [editors] <u>Universities in Transition - the Changing Role and Challenges for Academic Institutions; Insight and Innovation in International Development Series</u>: Springer, New York; pp. 193-218. ISBN: 978-1-4419-7508-9; Co-author with Enver Motala and Mario Scerri</p>
<b>2010</b>
<p>“Innovation Strategies in Developing Countries,” Chapter 7, in Kraemer-Mbula, Erika and Watu Wamae [editors] <u>Innovation and the Development Agenda</u>, Organisation for Economic Co-operation and Development, Paris; pp. 133–151; ISBN 978-92-64-08891-7; Co-author with Erika Kraemer-Mbula.</p>
<p>“International Cooperation in Science and Technology in the New Global Geopolitical Framework: Continuities and Changes” Chapter 4 in Galvão, Antonio Carlos Filgueira [editor] <u>Cooperação Internacional na Era do Conhecimento</u>, Centro de Gestão e Estudos Estratégicos, Brasília; pp. 67–90; ISBN: 978-85-60755-18-9.</p>
<p>“Systemic Assessment of Innovation Interventions,” Chapter 7 in James, Tina [editor] <u>Enhancing Innovation in South Africa – The COFISA Experience</u>, Department of Science and Technology, Tshwane, with Thomas E. Pogue; pp. 114-121 with endnotes and references on p. 137.</p>
<b>2009</b>
<p>“New Challenges for Universities beyond Education and Training”, <u>Science and Public Policy</u>, 36 (2): 83–85. ISSN 0302-3427; Co-author with Bo Göransson and Ulrich Schmoch.</p>
<p>“Rethinking the Linkages between Teaching and Extension in South Africa”, <u>Science and Public Policy</u>, 36 (2): 127–132; pp., ISSN 0302-3427; Co-author with Lindile Ndabeni.</p>
<p>“New Activities of Universities in Transfer and Extension: Multiple Requirements and manifold Solutions”, <u>Science and Public Policy</u>, 36 (2): 157–164; ISSN 0302-3427; Co-author with Bo Göransson and Ulrich Schmoch.</p>
<p>“Transforming South Africa’s National System of Innovation for Accelerated and Shared Growth and Development,” <u>BRICS Country Report</u>, IDRC; Co-author with Thomas E. Pogue.</p>
<b>2008</b>
<p><u>South African Science, Technology and Industry Scoreboard 2008</u>, Cooperation Framework on Innovation Systems between Finland and South (COFISA), Co-author with Thomas E. Pogue.</p>
<p>“Global Economic Policy Reform,” Chapter 9, in Pressend, Michelle and Michelle Ruiters [editors] <u>Dilemmas of Poverty and Development: A Proposed Policy Framework for the Southern African Development Community</u>, Institute for Global Dialogue, Midrand; pp. 166-202. ISBN: 978-1-920216-09-2.</p>
<b>2007</b>
<p>“Higher Education Transformation in South Africa: Universities in Development Position Paper,” <u>UniDev Discussion Paper Series Paper Number 4</u>, Lund University, Co-author with Enver Motala.</p>
<b>2006</b>
<p>“Technological Change for Local Economic Growth and Development,” Chapter 4 in Roberts, Simon [editor] <u>Sustainable Manufacturing? The Case of South Africa and Ekurhuleni</u>, Juta Academic Press, Cape Town; pp. 46-60. ISBN: 0-7021-72723; Co-author with Thomas E. Pogue.</p>
<p>Review of “Leslie Berlin, The Man behind the Microchip: Robert Noyce and the Invention of Silicon Valley,” Published online at <u>EH.Net</u>, the Economic History Service of the Economic History Association and the Business History Conference, the Cliometric Society, the Economic History Society, and the History of Economics Society <a href="http://eh.net/bookreviews/library/1151">http://eh.net/bookreviews/library/1151</a></p>

<p>“<u>Socio-Economic Development Country Self-Assessment of South Africa</u>” for the African Peer Review Mechanism, African Union; Co-author with Thomas E. Pogue.</p>	
<p>“Overcoming Underdevelopment in South Africa’s Second Economy” in <u>Development Southern Africa</u>, Vol. 23, No. 1, March, Co-author with Michael Aliber, Marie Kirsten, Josephilda Nhlapo-Hlope and Oupa Nkoane.</p>	
<p>Innovation Systems for ICT: The case of South Africa, Chapter 6 in Baskaran, A. and M. Muchie (editors) <u>Bridging the Digital Divide: Innovation Systems for ICT in Brazil, China, India, Thailand and Southern Africa</u>, Adonis and Abbey, London; pp. 181-214. ISBN: 1-905068-15-8; Co-author with Anga Baskaran and Mammo Muchie</p>	
	<b>2005</b>
<p>“Synthesis,” in <u>Development Report 2005</u>, Development Bank of Southern Africa; Midrand; pp. 88-99, ISBN: 1-919692-71-1; Co-author with Michael Aliber.</p>	
<p>“Report of the National Roundtable on Multilateral Environmental Agreement Innovation and Sustainable Development”, Department of Science and Technology, Tshwane; Co-author with Salim Fakir and Michelle Pressend.</p>	
<p>“In My View: South Africa needs to move forward on the basis of a broad National Dialogue”, in <u>Innovations, a supplement of the Financial Mail</u>; Johannesburg.</p>	
	<b>2004</b>
<p><u>Flight of the Flamingos: A Study of the Mobility of Human Resources in Science and Technology</u>, Human Sciences Research Council, Tshwane; ISBN: 0-7969-2033-8; Co-editor with Michael Kahn, William Blankley, Vijay Reddy, Thomas E. Pogue and Marissa du Toit.</p>	
<p><u>South African Innovation: Key Facts and Figures: 2004</u>; National Advisory Council on Innovation and Department of Science and Technology, Tshwane; Co-author with Andre Buys, Anastassios Pouris, Thinus Pretorius, Charles Mokonoto, Khopolo Phate, Imraam Saloojee, Mpho Mosarwa and Mokgwetsi Rakate.</p>	
	<b>2003</b>
<p><u>South African National Transport Research and Innovation Strategy</u>, National Department of Transport, Tshwane; Co-author with Mohamed Jeenah, Meshack Khosa and Anastassios Pouris.</p>	
<p>“Benchmarking Industrial Competitiveness and Performance: A Contribution to Vision 2014,” <u>CSIR Policy Group Report</u>, Department of Trade and Industry, Tshwane; Co-author with Thomas E. Pogue, Daniel Selvarentnam, Christopher Mlosy, Tania Eybers, and Charmain Modise.</p>	
<p>A Study on the Mobility of Research and Development Workers, Final Project Report to the National Advisory Council on Innovation, Tshwane; <u>Confidential Client Report</u>.</p>	
<p>Utilisation of Research Findings: Case Study Report, Final Project Report to the National Advisory Council on Innovation, Tshwane; <u>Confidential Client Report</u>.</p>	
<p>“Science and Technology Quality: Towards a Rational, Integrated and Responsive System of Quality Performance Indicators in the CSIR,” <u>CSIR Policy Group Report</u>, Council for Scientific and Industrial Research, Tshwane; Co-author with Thomas E. Pogue.</p>	
<p>“The CSIR and Technology for Development,” <u>CSIR Policy Group Report</u>, Council for Scientific and Industrial Research, Tshwane; Co-author with Nontutuzelo Majjja and Thomas E. Pogue.</p>	
	<b>2002</b>
<p>“A Study on the Mobility of Research and Development Workers,” <u>National Advisory Council on Innovation Project Report</u>, Human Science Research Council, Tshwane, Co-author with William Blankley, Gabriel Cele, Marissa du Toit, Michael Kahn, Thomas E. Pogue, and Vijay Reddy.</p>	
	<b>1998</b>
<p>“Meeting the Challenges of Science and Technology Development” in Fourie, Pieter and Riaan De Villiers [editors] “<u>South Africa and the Non-Aligned Movement in an Era of Regionalisation and Globalisation</u>: Proceedings of a Preparatory Workshop jointly organised by the Foundation for Global Dialogue and the South African Department of Foreign Affairs, Pretoria, 29-30 April, pp. 102–106; ISBN: 1 9196 9729 2</p>	
	<b>1996</b>
<p>“Human Resources Development” in the <u>White Paper on Science and Technology</u>, Department of Arts, Culture, Science and Technology, Government Printer, Tshwane.</p>	
	<b>1995</b>
<p>“The National Qualifications Framework for Beginners,” in <u>Education Monitor</u>, 6(3), Education Policy Unit, University of Natal, Durban.</p>	
<p>“The Implications of Education Policy,” in <u>Towards Democracy</u>, 4(2): Institute for Multi-Party Democracy, Durban.</p>	
	<b>1994</b>
<p>“Human Resource Development in KwaZulu-Natal” in <u>Implementing the RDP in KwaZulu-Natal</u>, ANC/SACP/COSATU Alliance; ISBN: 0 620 18802 2; Co-author with Bheki Langa.</p>	
<p>“Restructuring Adult Basic Education and Training in KwaZulu-Natal” in <u>Proposals for the Restructuring of Education and Training in KwaZulu-Natal</u>, Joint MEPU/EPU Publication, SIDA, Co-author with Enver Motala.</p>	
	<b>1993</b>

“Briefing Document on the DBSA’s Economic and Social Memorandum”, for COSATU, Confidential.	
“Briefing Document on the World Bank’s Decentralisation in Education”, for ANC Education Department, Confidential.	
	<b>1992</b>
“ABET in KwaZulu-Natal: A Sector Report to the Alliance,” <u>Discussion Document</u> , ANC/SACP/COSATU Alliance.	
<u>Adult Basic Education and the RDP: A Source Document</u> , Centre for Education Policy Development, with Enver Motala.	
	<b>1991</b>
“Organising the Reservoir Hills Branch of the ANC,” <u>Discussion Document</u> , African National Congress	
“Students and the University: Some Notes for Transformation,” in <u>MEPU Occasional Papers</u> , 1(1): 24-25; UDW Press.	
	<b>1990 - 1991</b>
“Participatory Democracy and Revolutionary Effectiveness,” <u>Discussion Document</u> , African National Congress.	
“A Framework of Norms and Standards for ABET in Industry,” Presentation to ESKOM, on behalf of National Union of Metal Workers of South Africa, Southern Natal Region.	
“An Integrated Education and Training System and its Implications for Workplace-based HRD Programmes,” Presentation to Dunlop SA, on behalf of National Union of Metal Workers of South Africa, Southern Natal Region.	
“Scenario’s in the field of Adult Education with specific reference to the role of Provision Agencies,” Presentation to ESKOM, on behalf of National Union of Metal Workers of South Africa, Southern Natal Region.	

## Selected Community Engagements

2018		
Delegate and Presenter	“Human Development Indicators and Comprehensive Social Protection as models of investment in people-Peer BRICS comparative experiences and learning for our programmes,” 3 <sup>rd</sup> BRICS Trade Union Forum: Inclusive BRICS for Decent Work and Sustainable Development: African Agenda which places People at the Centre of Industrialisation, Investment, and Development, Durban.	
Delegate	South Africa-China Scientists High-level Dialogue, CSIR Conference Centre, Tshwane.	
Delegate	First Workshop National Science, Technology and Innovation Foresight Initiative 2018, Saint Georges Hotel, Tshwane.	
Invited Seminar Presentation	“Understanding and properly interpreting the 4th Industrial Revolution and the struggle to meet basic human and development needs. How does it explain the global balance of Power and context of our struggle,” COSATU International Summit on the Future of Working Class Internationalism, Ekurhuleni.	
Discussant	Perspectives on Research Excellence in the Global South Workshop, Science Granting Council Initiative of the International Development Research Centre, Indaba Hotel, Johannesburg.	
Keynote Presenter and Delegate	“Unlocking our Universities for a Progressive Second Decade of BRICS Cooperation through enhanced Science, Technology, and Innovation,” 3 <sup>rd</sup> Annual Conference of the BRICS Network University, Stellenbosch University, Stellenbosch.	
TUT Delegate	“Leveraging Science, Technology and Innovation to Enhance Inclusive Growth and Development,” 6 <sup>th</sup> BRICS Science, Technology and Innovation Ministerial Meeting, eThekweni.	
Invited Facilitator	“The Future of ICT,” Rethinking the Academic Project in the Era of the 4th Industrial Revolution, A Future of Work Summit of the Umlambo Foundation, Nelson Mandela Foundation, Albertina Sisulu Foundation, Armed Kathrada Foundation, Chris Hani Institute, Cyril Ramaphosa Foundation, Steve Biko Foundation, Kagiso Trust, Tambo Foundation, Thuli Madonsela Foundation, and the Thabo Mbeki Foundation, SCI-BONO Discovery Centre, Johannesburg.	
Invited Speaker	“Science for the People: Realizing the Potential of BRICS,” 21 <sup>st</sup> Wanshou Forum: International Symposium on BRICS People-to-People Exchanges, School of International Relations, Sichuan International Studies University, Chongqing, China.	
South African Delegate and Session Chair	“Rethinking Economic Prosperity in the BRICS, and 21 <sup>st</sup> Century Manufacturing and Financial Initiatives for Sustainable Development”, 10 <sup>th</sup> BRICS Academic Forum, Johannesburg.	
Invited Presentations	“What is the ‘future of work,’ and is it new?” and “Understanding the BRICS, and the Future of Work,” BRICS and the Future of Work Workshop, National Labour and Economic Development Institute, COSATU House, Johannesburg.	
Invited Presentation	“The World We (all) Want: Sustainability, Resilience, and Development Impacts as Core to the Peoples University,” Realising TUT as a Peoples University Advanced Leadership Programme, Tshwane University of Technology, Toppieshoek Outdoor Recreation and Leadership Centre, Broederstroom.	
Invited Presentation	“Intellectual Property Regimes, Technology Transfer, and the Innovation Potential of the BRICS,” Knowledge and Innovation Cluster Workshop, SA BRICS Think Tank Forum, Centre for Researching Education and Labour, School of Education, University of the Witwatersrand, Johannesburg.	
Invited Presentation	“Energy-mixes and Development within Planetary Boundaries: Trade Union Challenges,” National Labour Climate Change Conference (Congress of South African Trade Unions, Federation of Unions of South Africa, and National Council of Trade Unions), National Labour and Economic Development Institute, Farm Inn, Tshwane.	
Academic Coordinator and Professor	“Planetary Boundaries, SDGs and STI: The Future We All Want!” Parliamentarians and High-Level Officials Training Workshop on Science, Technology, and Innovation, Policy and Governance, DST, UNESCO, DST/NRF SciSTIP CoE, IERI, and CREST, Tshwane.	
2017	Invited Speaker	“Africa’s Developmental Challenges: Past’s Presents and Prospects ...,” Workshop of the African Diaspora for Development, Johannesburg.
	Invited Speaker	Singularity: Challenges and Opportunities for Economies in Transition, Science Forum South Africa 2017, CSIR Conference Centre, Tshwane.
	Invited Session Chair	“Measurements and Evaluation of the National Systems of Innovation,” Session VI of the 3 <sup>rd</sup> Meeting of the Global Forum of National Advisory Councils, National Advisory Council on Innovation, Tshwane.
	Invited Speaker	“Climate Change and Capitalism,” Climate Change and Nuclear Energy Workshop, National Education, Health and Allied Workers' Union, Tshwane.
	Elected Chair	6 <sup>th</sup> AfricaLICS Scientific Board Meeting, University of Oran, Oran, Algeria.
	Invited Lecturer	“Understanding Innovation and Development Studies,” 3 <sup>rd</sup> AfricaLICS Conference – Emerging Innovation Systems for Sustainable Industrial Development in Africa, University of Oran, Oran, Algeria.
	Invited Speaker	“Prioritising the Productive, Creative, and Scientific Powers of BRICS Countries,” The South African BRICS Presidency 2018: Towards an Agenda for Inclusive Development? Institute for Global Dialogue and National Institute for the Humanities and Social Sciences Dialogue Series, Tshwane.
	External Review Panellist	External Review of the Directorate of Research Development of the University of the Free State, Bloemfontein.

Invited Speaker	“Sustainable Development in the Anthropocene: Emergent Challenges for Emerging Economies and Developing Countries,” Theme 2: The Cooperation of Emerging Economies, Session 1: The Cooperation of Emerging Economies: Issues and Challenges, China Society of Emerging Economics Annual Conference 2017 & Emerging Economies Forum 2017, Guangzhou, China.
Invited Panel Reviewer	Human and Social Dynamics Panel, National Research Foundation, Tshwane.
Invited Panellist	“Democracy, Development and Innovation (in times of Political and Social Turmoil)” and “Transforming Innovation, Innovating Transformation,” Special Sessions of the 15th Globelics International Conference, Athens.
Invited Panellist	“Innovation for Inclusive Development” and “National Systems of Innovation Transformation,” Prospects for Transformative Innovation Policy Conference, Transformative Innovation Policy Consortium, Tshwane.
Invited Lecture	“Innovation and Development,” African Programme for Rethinking Development Economics, Department of Trade and Industry and the Industrial Development Corporation, Johannesburg.
Council Delegate	Consultative Transformation Summit of Rhodes University, Grahamstown.
Joint Academic Coordinator	Learning and Teaching Workshop on Critical Contemporary Issues in Political Economy, Education Policy Consortium, Nelson Mandela Metropolitan University, with Enver Motala, Port Elizabeth.
National Delegate and Presentation	"Pooling Wisdom and New Ideas for Cooperation," 9th BRICS Academic Forum, Fuzhou, PRC.
Invited Delegate	The Future of the Left - South Africa in a Global Context, Mzala Nxumalo Centre for the Study of South African Society, Durban.
Invited Delegate and Presentation	BRICS' Think-Tanks Seminar on BRICS' Industrial Value Chain Integration and Cooperation among Enterprises, Universities and Research Organizations, China Council for BRICS Think-tank Cooperation and the Guangdong University of Technology, PRC.
Invited Delegate	BRICS Think Tank Forum on Strengthening Financial Cooperation and Promoting BRICS Development, Chongyang Institute for Financial Studies, Renmin University of China, PRC.
Invited Delegate	“Workshop on South Africa-China Science Park Cooperation,” South Africa-China People-to-People Exchange Mechanism, CSIR Conference Centre, Tshwane.
Co-host	Innovation for Inclusive Development and Transformative Change Seminar, DST/NRF SciSTIP CoE, DST, and National Advisory Council on Innovation, Tshwane.
Invited Presentation	“Learning and Development in the Anthropocene: Limits of Structural Reform and the Possibilities of Systemic Transformation,” Human and Social Dynamics Research Seminar, Human Sciences Research Council, Innovation Hub, Tshwane.
Invited Delegate	BRICS Cluster Workshop, South African BRICS Think Tank, National Institute for Humanities and Social Sciences, Johannesburg.
Co-host	Welcome Address to the South African Maker Movement Workshop, Open African Innovation Research, LINK Centre, and IERI, Tshwane
Invited Respondent	“Innovation and Technology Absorption by South African Firms,” National Treasury and World Bank, Tshwane.
2016	
Parallel Session Chair	“The Informal Economy in Developing Nations: Hidden Engine of Innovation?” Science Forum South Africa 2016, CSIR Conference Centre, Tshwane.
Invited Panellist	“Impact of NIR on South Africa with focus on job creation, SMEs and skills,” Industry 4.0: Be smart, join the Next Revolution Today, Department of Science and Technology and Council of Scientific and Industrial Research, CSIR Conference Centre, Tshwane.
Invited Delegate	High-level Stakeholder Forum on Open Science, Academy of Science of South Africa, Department of Science and Technology, and Data Intensive Research Initiative South Africa, CSIR Knowledge Hub, Tshwane.
Invited Panellist	“The policy Environment and Policy Options for the South African System of Innovation,” Mapungubwe Institute for Strategic Reflection and Department of Science and Technology, CSIR Conference Centre, Tshwane.
Invited Panellist	“The Role of BRICS in the Climate Governance and the Future of Multilateralism,” International Seminar on the Role of BRICS in the Evolution of the New Environmental Governance, BRICS Policy Center, Socioenvironmental Platform, International Relations Institute the Friedrich Ebert Foundation (FES) and the Public Interest Management (GIP), Institute of International Relations, Catholic University of Rio de Janeiro, Brazil.
Invited Presentation	“Defending and Expanding the Global Knowledge Commons: Cyber-infrastructures and the Political Economy of the Techno-economic Platforms of the 21st Century,” International High-Level Think-Tank Forum on Internet, 3rd World Internet Conference, Wuzhen, PRC.
Invited Delegate	Nelson Mandela Foundation - Earthrise Inaugural Dialogue on The State and Society, Rustlers Valley, South Africa.
Scientific Board	4 <sup>th</sup> Annual CAAST-Net Plus Meeting, Athens, Greece.
Review Committee, Plenary Panellist, Paper Presenter, and Discussant.	14 <sup>th</sup> Annual Conference of the Global Network for the Economics of Learning, Innovation and Competence-building Systems (Globelics); Bandung, Indonesia.

	Chairperson	5 <sup>th</sup> Meeting of the Scientific Board of the AfricaLICS, Bandung.
	South African Delegate, Presenter, and Moderator	8 <sup>th</sup> BRICS Academic Forum, Goa; Panel on Regulating the New Commons and Related Global Public Goods: A Vision from BRICS Perspective; and Panel on Future of Energy: Implications and Opportunities for BRICS.
	Invited Delegate	BRICS Wellness Workshop, Research and Information System for Developing Countries(RIS), Ministry of AYUSH and Ministry of Tourism, Government of India, Bengaluru.
	Delegate	DST-NRF Centres of Excellence Annual Directors' Forum 2016, UNITE Building, School of Engineering, UKZN Howard College Campus, Durban.
	South African Delegate and Panel Coordinator	Towards Global Principles & Ethics of Science Advice High-Level Consultation Event, Manchester Town Hall; and Panel: BRICS –the new [kids] on the STI bloc(k), EuroScience Open Forum (ESOF) 2016 Manchester.
	Invited External Expert Observer	Horizon 2020 Evaluation, European Commission, Brussels, Belgium.
	Co-host and Faculty	11 <sup>th</sup> International PhD School on Innovation and Development, IERI and SciSTIP CoE, Tshwane University of Technology, Tshwane.
	Invited Keynote Address	“Developments in South African STI Policy: Emerging Future Challenges,” SPRU-AFRICA Conference: ‘The Past and Future of Innovation Policy,’ Science Policy Research Unit, African Pride Irene Country Lodge, Tshwane.
	Invited Delegate and Presentation	The City as a Knowledge and Innovation Hub Stream, Tshwane Research and Innovation Symposium 2016, The Innovation Hub, Tshwane.
	Invited Seminar	“The Emergence of Post-capitalism and its Challenges,” Centre for Integrated Post-School Education and Training Seminar, Nelson Mandela Metropolitan University, Port Elizabeth.
	Invited Delegate and Presentation	“The Global Crisis and the BRICS,” International Seminar on the Future of the Brazilian Development, The Centre for Higher Studies Brazil XXI Century, CGEE, Economics Institute of the UFRJ, Economics Institute of Unicamp, Brazilian National Development Bank, in Rio de Janeiro.
	Invited Delegate and Presentation	“Science, Technology, and Innovation Policy in South Africa,” XVII International Academic Conference on Economic and Social Development, National Research University Higher School of Economics, Moscow.
	Invited Delegate and Presentation	“Re-reading our Past, Re-framing our Present, Re-envisioning our Futures: The Spectre of Post-capitalism and our Contemporary Revolutionary Challenges,” South Africa Today: To What Extent has the Country Achieved the Goals of the Liberation Struggle? Inaugural Colloquium: Mzala Nxumalo Centre for the Study of South African Society, Pietermaritzburg.
	Invited Respondent	HSRC Action Dialogue on Poverty, Inequality and Sustainable Development in Africa and Beyond, Tshwane.
	Invited Lecturer, Presenter, and Panellist	“Socially-engaged Scholarship in the 21st Century: Some Challenges for Science, Technology, and Innovation Studies,” “The Spectre of Post-capitalism and Rethinking Science, Technology, and Innovation for Development,” and “Emerging Southern African Perspectives on Innovation for Inclusive and Sustainable Development,” Indian Doctoral Academy and 3 <sup>rd</sup> IndiaLICS International Conference, Centre for Development Studies, Trivandrum.
	Invited Co-chair	“S&T, Agriculture and Natural Resources (Different Modalities),” Parallel Session II (c), International Conference on South-South Cooperation, Research and Information System for Developing Countries, New Delhi.
	Invited Presentations	“Economic Alternatives (Unemployment and Inequality),” and “Science, technology and innovation,” South African BRICS Think Tank Academic Forum, National Institute of Humanities and Social Sciences, Johannesburg.
	Delegate	Human and Social Sciences Research Infrastructure Roundtable, Department of Science and Technology, Tshwane.
	Invited Panellist	“The potential and limit of vocational and community education in advancing the solidarity economy – with particular reference to the needs of youth,’ Round Table organised by Centre for Integrated Post-School Education and Training, Nelson Mandela Metropolitan University, Port Elizabeth.
2015	Panel Coordinator	“Creatively Destroying Africa: Rethinking Inclusion, Integration, and Sustainable Development through Science, Technology and Innovation,” Science Forum South Africa 2015, CSIR Conference Centre, Tshwane.
	Delegate	Neville Alexander Commemorative Conference, University of Johannesburg, Johannesburg.
	Invited Panellist	“Learning from Collaborative Research in the BRICS,” Africities BRICS Cities Session, Sandton Convention Centre, Johannesburg.
	Invited Panellist	“Reflections on the Reform of the International Financial Institutions: Time for Transformation?” United Nations @ 70: Towards a Future Symposium, Institute for Global Dialogue and UN Political Desk of DIRCO, Tshwane.
	Invited Panellist and Scientific Advisory Board Chair	“South Africa’s Policy Experiences in Science, Technology and Innovation,” 2 <sup>nd</sup> AfricaLICS International Conference, Kigali.
	Invited Delegate	“The Cyber-commons and the Challenges of Safety, Security, and Sovereignty,” International Conference on the Global Commons and BRICS, Moscow, Russia.



	Invited International Delegate	Flanders Inspires International Visitors Programme of the Flemish Government, Brussels.
	Chairperson of the National Review Panel	NRF Thuthuka Programme Advisory Panel, National Research Foundation, Tshwane.
	Invited Panellist, Session Co-Chair and Respondent	Innovation for Inclusive Development: Lessons from South Africa; Digital Inequality; and BRICS Round table on Global Inequality: Reflections and responses from BRICS, World Social Science Forum 2015, International Social Science Council, Council for the Development of Social Science Research in Africa, and Human Sciences Research Council, Durban.
	Chairperson of the National Review Panel	Social Sciences Adjudication Panel, Sabbatical Grants to Complete Doctoral Degrees, National Research Foundation, Tshwane.
	Invited Delegate	Tshwane Vision 2055 Scenario Planning Second Workshop, Centurion Council Chambers, Tshwane.
	Invited Panellist	"Financing Innovation, Technology Transfer and Development," Partnerships for Financing Equitable and Effective Climate Action, Preparatory Roundtable for the Conference of the Parties 21, United Nations Framework Convention on Climate Change, Paris.
	Invited External Expert Observer	Evaluation of Horizon 2020, European Commission, Brussels, Belgium.
	External Reviewer	Globelics Thematic Review: From Natural Resource-based to Knowledge-based Economies, Global Network for the Economics of Learning, Innovation and Competence-building Systems, Aalborg University Press, Aalborg.
	National Review Panellist	NRF Green Economy Postdoctoral Fellowships Advisory Panel, National Research Foundation, Tshwane.
	Scientific Advisory Committee	Inter-academic Networking for Capacity-building in STI Policy in Africa, A Consultative Group of the UNESCO's Division of Science Policy and Capacity-Building, Paris.
	Invited Presentation	Inter-university Networking for Capacity-building in STI Policy and Governance, 11-12 June, Tunis-Hammamet, Tunisia.
	South African Delegate	7 <sup>th</sup> Academic Forum of BRICS, 21-23 May, Moscow, Russia.
	Invited Presentation	Innovating beyond Borders: Some Challenges and Opportunities for MENA and SSA, in Session 3: Innovation as a catalyst of change in Africa, One Africa Future Round Table, 16-17 May, Landmark Hotel, Amman, Jordan
	Invited Presentation	BRICS Preparatory for SA Academics, DIRCO, Tshwane.
	Invited Responder	Roundtable Discussion on Politicisation of Aid, Médecins Sans Frontières/ Doctors without Borders Southern Africa and CIVICUS
	Invited Presentation	Governance, Power and Politics of Health Innovation and Implications for Health Systems Strengthening, Session 7, GLOBELICS Thematic Review on Health, BNDES, Rio de Janeiro.
	Invited Presentation	Rural Health Systems in South Africa: Local Innovation and Potential for Social Inclusion, and Developing Sustainably and the Emergence of New Productive Paradigms, International Seminar: Health Innovation Systems, Equity and Development, BNDES. Rio de Janeiro.
	National Review Panellist	NRF Extension Support for Masters and Doctoral Studies Advisory Panel, National Research Foundation, Tshwane.
	International Advisor	CAAST-Net Plus Workshop, Fourways, Johannesburg, South Africa.
	National Review Panellist	Human and Social Dynamics Advisory Panel, National Research Foundation, Tshwane.
2014	Invited Presentation	Os BRICS: para uma nova configuração internacional: iBASE Seminar, Rio de Janeiro, Brazil.
	Invited Presentation	Back to the Future: The Great Transition Revisited Workshop, Tellus Institute, Boston, USA.
	Invited Presentation	"Development and Inequality: The Role of Innovation Systems in the BRICS," BRICS Policy Centre Colloquium, Rio de Janeiro, Brazil.
	Invited Presentation	BRICS in Africa: Challenges and Opportunities, Friedrich Ebert Stiftung Seminar, Berlin, Germany.
	Visiting Professor	Redesist, UFRJ, Rio de Janeiro, Brazil.
	External Expert Evaluator	H2020-INT-INCO-2014, European Commission, Brussels, Belgium.
	Advisor	CAAST-Net Plus Workshop, Lisbon, Portugal.
	Invited Delegate	Inaugural BRICS in the XXI Century Conference, COPPE Institute (Instituto Alberto Luiz Coimbra de Pós-Graduação e Pesquisa em Engenharia of the Federal University of Rio de Janeiro and Intersul (the Institute for Strategic Studies for the Integration of South America), Rio de Janeiro, Brazil.
	Invited Presentation	"BRICS: Alternative Building's or Building Alternatives?" Lunch-time Seminar, Tellus Institute, Boston, USA.

	Invited Presentation	“Creative Destruction and Great Transitions: Emerging Alternative Pathways in the 21st Century,” Marsh Institute Seminar Series, Clark University, Worcester, USA.
	Panellist	High Level Seminar on Science, Technology and Innovation in the BRICS, Centro de Gestão e Estudos Estratégicos, Brasilia, Brazil.
	South African Delegate	6 <sup>th</sup> Academic Forum of BRICS, Rio de Janeiro, Brazil.
	Node Head	Department of Science and Technology and the National Research Foundation’s Centre of Excellence in Scientometrics and Science, Technology and Innovation Policy (SciSTIP), South Africa.
	Associate Research Fellow	Tellus Institute, Boston, USA.
	Visiting Scholar	George Perkins Marsh Institute, Clark University, Worcester, USA.
2013	External Reviewer	Globelics Thematic Review: Low-Carbon Innovation and Development, Global Network for the Economics of Learning, Innovation, and Competence-building Systems, Aalborg University Press, Aalborg.
	Appointed Member	National Executive Committee Subcommittee on Education, National Education Health and Allied Workers Union (NEHAWU).
	Panellist	Crossed perceptions: China, the United States, the European Union, Brazil and the Emerging World Seminar organised by Alexandre de Gusmão Foundation and the University of Bologna, Rio de Janeiro.
	Review Committee, Plenary Panellist, and Discussant.	11 <sup>th</sup> Annual Conference of the Global Network for the Economics of Learning, Innovation and Competence-building Systems (Globelics); Ankara, Turkey.
	Breakaway Session Convenor	Reform of Global Political and Economic Governance Institutions, BRICS Think Tank Consultative Stakeholders Conference, Department of International Relations and Cooperation and HSRC, Tshwane.
	Keynote Plenary Presentation	“Using Technology for Innovation and Entrepreneurship,” International Conference on the Value of Indigenous Knowledge in the 21st Century, Department of Science and Technology and North West University, Johannesburg.
	Panel Presentation	“Between Idealism and Realism: SA in IBSA,” IBSA and SA’s National Priorities, IBSA 10- Year Strategic Review Workshop, Department of International Relations and Cooperation, Tshwane
	South African Coordinator	RISSI International Seminar: Innovation and Social Inclusion: Empirical Evidences on Health in BASIC Countries, BNDES, Rio de Janeiro. Co-presenter “South Africa – Rural Health in Eastern Cape Province” with Erika Kraemer- Mbula and Lindile Ndabeni. Panellist: Innovation Systems and Inclusive Development
	Invited Seminar Presentation	GLOBELICS Seminar: Learning, Innovation and Low Carbon Development, Aalborg University, Copenhagen.
	Panellist	BRICS Civil Society Organisations Strategy Meeting, Diakonia Centre, eThekweni.
	Invited Keynote Presentation	“Transitions in Global Governance Institutions: The Role of BRICS?” BRICS Civil Society Strategy Meeting on Civil Society Perspectives and Response, Organised by Economic Justice Network and OXFAM, Garden Court Marine Parade, eThekweni
	South African Delegate	5th BRICS Academic Forum, Durban University of Technology, eThekweni.
	Invited Delegate	South African Preparatory Conference for the BRICS Academic Forum, University of Pretoria, Tshwane.
	Invited Panellist	BRICS: - Paradigm Shift or more of the same? Organised by ActionAid, Women’s Jail, Johannesburg.
	Invited Expert	United Nations High Level Panel on the Post-2015 Development Agenda, Republic of Liberia.
	External Reviewer	National System of Innovation of the United Republic of Tanzania.
	Invited Delegate	Rising Democracies of the Global South: Understanding India Brazil South Africa Dialogue Forum, Commonwealth Human Rights Initiative, New Delhi, India.
2012	External Reviewer	Learning, Innovation and Inclusive Development: New Perspectives on Economic Development Strategy and Development Aid, Global Network for the Economics of Learning, Innovation and Competence-building Systems, Aalborg University Press, Aalborg.
	Invited Keynote Address	1 <sup>st</sup> CDEIS-IndiaLICS International Conference on Development and Innovation in Emerging Economies, Punjabi University, Patiala, India.
	Lecturer and Panellist	An Alternative at Rio+20: Peoples’ Sustainability Treaties and the Manifesto, Ramapo College, New Jersey, USA.
	Visiting Faculty	AfricaLICS Doctoral Academy: Innovation and Development in Africa, Moi University, Kenya.
	Visiting Faculty	Innovation and Entrepreneurship Course, Research Policy Institute, Faculty of Economics and Management, Lund University, Sweden.
	Visiting Professor	GLOBELICS International Doctoral Academy, Research Network on Innovation and Production Systems, Instituto de Economia da Universidade Federal do Rio de Janeiro, Brazil.
	DST Appointee	Steering Committee of the Rural Innovation Assessment Tool
	Visiting Lecturer	Heterodox Economics and Political Economy of South Africa, Stellenbosch University.
	Delegate	Science and Technology Summit of the African National Congress.
	Ministerial Representative	Council of Rhodes University, Grahamstown, Eastern Cape.

	Guest Delegate	International Policy Conference of the Congress of South African Trade Unions.
	Visiting Professor	50 <sup>th</sup> Anniversary of the Department of Economic Planning, Faculty of Economics, University of Havana, Cuba.
	Invited Panellist	2 <sup>nd</sup> National Economic Development Conference
	Convenor	Local Innovation and Production Systems Seminar
	Host	BASIC+ Research Planning Workshop on Inclusive Development
	Interim Scientific Board	AfricaLICS
	Invited Presentation	All African Globelics Seminar on Innovation and Economic Development
2011	Working Group Member	South Africa Forum for International Solidarity (SAFIS)
	Lecturer and Coordinator	4 <sup>th</sup> Cohort of STISA, South Africa
	Review Committee, Paper Presenter and Plenary Panellist	9 <sup>th</sup> Annual Conference of the Global Network for the Economics of Learning, Innovation and Competence-building Systems (Globelics); Buenos Aires, Argentina.
	Panel Member	“Technology Absorption, Innovation and Productivity” for the Conference on Improving Competitiveness for Job Creation: Technology, Access to Finance and Industrial Policy, by Trade and Industrial Policy and Strategies and the World Bank, South Africa.
	Commission Convener	“Issues with Job Creation Approaches” for the Dialogue on Sustainable Livelihood and Job Creation for the Khanya-African Institute for Citizen Driven Democracy, South Africa.
	Plenary Presentation	“Development and Sustainability: a new productive paradigm” for the Seminar on “Innovation Policies and Structural Change in a Context of Growth and Crisis” by College of High Studies and Research Network on Local Innovation Systems of the Economics Institute of the Federal University of Rio de Janeiro, Brazil.
	Participant and Discussion Facilitator	The Green Economy, Poverty and the Global Inequality Working Paper for the International Workshop Biocivilization for the Sustainability of Life and the Planet in the run-up to the Rio+20 Conference, by the Fórum para uma Nova Governança Mundial and iBASE, Brazil.
	Delegate Participant	“Cuban Reform Process in the Light of Other Country Experiences,” Oslo, Norwegian Institute of International Affairs and Social Science Research Council.
	Guest Lecturer	Heterodox Economics for MPhil, SOMP, University of Stellenbosch, Cape Town.
	Chapter Presenter	Launch of the African Innovation Outlook 2010, African Union-NePAD Agency, Addis Ababa.
	Delegation Host	Policy Options for Cuba’s Development: Preparing for the Post-Embargo Era.
2010	Invited Guest Lecture	“Knowledge Utilisation and Economic Development Challenges for Innovation in Africa” to the Launch of the ERAfrica: Developing African-European Joint Collaboration for Science and Technology, Tshwane.
	Invited Panellist	Roundtable on Round Table on Innovation and Development, Development Bank of Brazil (BNDES), Rio de Janeiro, Brazil.
	Presenter	Seminar on “The University Contribution to Innovation and Development: Case Studies in Selected Countries,” Rio de Janeiro, Brazil.
	Scientific Committee, Paper Presenter and Session Chair	8 <sup>th</sup> Annual Conference of the Global Network for the Economics of Learning, Innovation and Competence-building Systems (Globelics); Kuala Lumpur, Malaysia.
	Academic Committee	Joint African Programme on Comparative Local Development, Tshwane.
	Coordinating Circle	Widening Circles Alliance and Global Citizens Movement
	Chair	Launch of National Productivity Statistics for South Africa Productivity South Africa, Birchwood Conference Centre, Kempton Park.
	<i>Global Synergiser</i>	The Pachamama Alliance, Great Transition Initiative, Institute of Noetic Studies, San Francisco, USA.
	Inaugural Meeting of the LAUNCH Council	National Aeronautics and Space Administration, Kennedy Space Centre, Orlando, USA.
	Paper Presenter	Wits Innovation Symposium: Theme 3: Generate, Promote and Support Innovation in Developing Countries: Practice and Policy, Johannesburg.
	Paper Presenter	National Innovation Panel, BRICS Project, IERI, Tshwane.
2009	Presenter	4 <sup>th</sup> BRICS Seminar, Centre for Development Studies, Jawaharlal Nehru University, Thiruvananthapuram, India.
	Guest Lecturer	Heterodox Economics for MPhil, SOMP, University of Stellenbosch, Cape Town.
	Invited Presenter	Organisation for Economic Cooperation and Development (OECD) and United Nations Education, Science and Culture Organisation (UNESCO) International Workshop on Innovation for Development: Converting

		Knowledge to Value, Paris, France.
	Visiting Researcher	German Development Institute (DIE), Bonn, Germany.
	Invited Presenter	Innovation and Technology Promotion Seminar of Section 4121: Economic Policy and Private Sector Development of the GTZ, Berlin, Germany.
2008	Panellist	Africa and the Global Economic and Financial Crisis for the Public Intellectual Forum of Pretoria News, Tshwane.
	Invited Presenter	Workshop on International Cooperation in the Knowledge Era organised by Centro de Gestão e Estudos Estratégicos and Ministério de Ciência e Tecnologia of Brazil, Rio de Janeiro, Brazil.
	Scientific Committee, Panel Convenor and Panellist	6 <sup>th</sup> Annual Conference of the Global Network for the Economics of Learning, Innovation and Competence-building Systems (Globelics): Panel Chair: Social Democracy, Political Economy and Innovation Policy Panellist: The new global STI landscape: Policy implications for BRICS countries. Panellist: Is there a need to develop new rules of the game at the global level to compensate development countries for brain drain? Mexico City, Mexico.
	Invited Presenter	2 <sup>nd</sup> Meeting of the “The Global Potentials Program” Esalen Institute’s Centre for Theory and Research (CTR), California, USA.
	Presenter and Host	3 <sup>rd</sup> International BRICS Seminar, Cape Town.
	Guest Lecturer	Heterodox Economics for Applied Economics Module of MPhil, Sustainability Institute, University of Stellenbosch, Cape Town.
	Board Member	South Africa Node of the Federation of United Nations Universities’ Millennium Project
	Session Chair and Outcomes Drafter	SA-German Dialogue on Science and Technology Policies for Sustainable Development
	Invited Participant	“High Level Expert Working Group on Technology and Development”, of the United Nations Educational, Scientific and Cultural Organization (UNESCO) held at the University of Manchester, UK.
	Invited Panellist	“University, Science and Technology” for the 6 <sup>o</sup> Congresso Internacional da Educação Superior “Universidade 2008” to celebrate 250 Years of Higher Education in Cuba, Havana.
2007 - 2009	Invited Presenter and Founding Delegate	Inaugural Meeting of the Global Potentials Program Esalen Institute’s Centre for Theory and Research (CTR)
2007 - 2008	Elected Chairperson	Rietondale, Riviera, Rietfontein, Deernes and Gezina Community Association
2007 - 2011	Doctoral Research Fellow	Forskningspolitiska Institutet, Lunds Universitets, Sweden.
2007 - 2008	Conference Steering Committee Member and International Scientific Committee	25 <sup>th</sup> World Conference of the International Association for Science Parks
2007	Invited Presenter	“South Africa’s Industrial and Technological Policy”, and “South Africa’s National System of Innovation and Development” for Ten Years of Local Innovative and Productive Systems at the BNDES for the Federal University of Rio de Janeiro, Brazil.
	Guest Lecturer	“Introduction to Economics: Orthodoxies and Heterodoxies ...” for Applied Economics Module of MPhil, Sustainability Institute, University of Stellenbosch, Cape Town.
	Invited Presenter	“Growth, Inequality and Development: Future Perspectives and Considerations for Southern Africa” to the International Futures Conference of the United Nations University, SA Node of the Millennium Project and Institute for Futures Research, University of Stellenbosch, Cape Town.
	Invited Delegate	“Measuring and Fostering the Progress of Societies” 2 <sup>nd</sup> OECD World Forum on Statistics, Knowledge and Policy, Istanbul, Turkey.
	<i>Rapporteur</i>	How Can Nordic Countries Support Higher Education and Research in Africa? An Initiative by Nordic Academic Institutions, Lund, Sweden.
	Invited Presenter	“STI Indicators and Development Models” for Science Park Seminar of DST, COFISA and Innovation Hub
	Invited Presenter	“South Africa: filling the void” to Intellectual Property Rights and Catch-up: An International Comparative Workshop of Hitotsubashi University and National Graduate Institute for Policy Studies, Tokyo, Japan.
	Panellist and Respondent	What is a University of Technology? Tshwane University of Technology Debate, Tshwane.
	Visiting Professor	STI Policy Implementation Training Course for Mozambique Ministry of Science, Technology and Innovation organised by RPI (Lund University) and funded by SAREC (Swedish International Development Agency), Pemba, Mozambique.
	Reviewer and	“Knowledge for Development: University-Firm Interactions in Sub-Saharan Africa” - Regional Knowledge

	Respondent	Systems Competition for International Research Development Council, Ho Chi Min City, Vietnam.
	Organising Committee, Presenter and Session Chair	Software and Business Method Patent International Workshop of Freedom to Innovate South Africa hosted at IERI and funded by Open Society of Southern Africa, Tshwane.
	Local Organising Committee Executive Member	International Conference on “Futures Intelligence Capacity” for the South Africa Node of the Federation of United Nations Universities’ Millennium Project, University of Stellenbosch.
	Scientific Advisory Committee Member	Annual Science and Technology Policy Conference of Georgia Institute for Technology and National Science Foundation, USA.
2006 - 2009	Contributing Editor	<u>South African Innovator</u> , published by Eclectic Media House, Cape Town.
2006	Chairperson	“Innovations for addressing the Rural-Urban Divide”, Plenary Session 3, GLOBELICS 2006 India Annual Conference, India.
	Book Reviewer	<u>EH.Net</u> , the Economic History Service of the Economic History Association and the Business History Conference, the Cliometric Society, the Economic History Society, and the History of Economics Society.
	Visiting Professor	“Learning For, and From, STI Policies For Development”, a Training Course for Policymakers and Practitioners in Developing Countries, funded by SIDA-SAREC and IDRC and held at Research Policy Institute, Lund University, Sweden.
	Article Referee	<u>SA Journal of Economic and Management Sciences</u>
	Ministerial Task Team	Human Resource and Capability Development for State Owned Enterprises (SOE’s) Project of the Joint Project Facility of the Minister of Public Enterprises, and the Chief Executive Officers of the SOE’s, with Enver Motala
	Visiting Professor	Research Policy Institute, Lund University – Sweden
	Visiting Professor	Global Network for the Economics of Learning, Innovation and Competence-building Systems (GLOBELICS) Doctoral Academy on National Systems of Innovation and Economic Development, Instituto Superior de Economia e Gestão – Portugal
2005 - 2006	Article Referee	<u>Development Southern Africa</u>
	Adjudicator	Technology Top100 Awards
2005	Local Organising Committee Co-coordinator, Secretary of the Scientific Advisory Committee and Convenor of the South African Review Team	3rd Annual Conference of GLOBELICS: Innovation Systems promoting Economic Growth, Social Cohesion and Good Governance: Tshwane, 31st October – 4th November
	External Evaluator	Department of Social Development’ Conference on Social Aspects of the New Partnership for Africa’s Development
	External Examiner	Public Policy Course for Masters in Management, University of Witwatersrand
2004 and 2005	Adjudicator	T-Systems and Department of Public Service Administration’ Age of Innovation and Sustainability Awards
	Adjudicator	Annual National Science and Technology Awards of the National Science and Technology Forum (NSTF) Science Council Representative and Higher Education Representative
2004	Session Chairperson for Innovation	United Nations Industrial Development Organisation and Department of Trade and Industry Conference on Competitiveness in South Africa
	South African Reference Team Member	New Partnership for Africa’s Development (NePAD): Science, Technology and Development Programme
2003 - 2008	Advisory Board Member	<u>Convergence: A Business Journal</u>
2003	Researcher and Advisor	South African National Transport Research and Innovation Strategy of the National Department of Transport
	Political Advisor	South African National Research and Development Strategy
	South African Expert Representative	United Nations Development Programme International Workshop: Sharing the Science and Technology Experiences of Developing Countries, STEPI, South Korea.

	Advisor	National Advisory Council on Innovation: Mobility of Highly Skilled Human Resources
	Reference Group Member	National Advisory Council on Innovation: Utilisation of Publicly Funded Research Results
2002 - 2003	Technical Task Team Member and Innovation System Expert	Vision 2014: Key Performance Indicators for the Micro-Economic Reform Strategy of South Africa's Department of Trade and Industry
2000	South African Expert	National Review for the Establishment of the Technology Stations Programme for GTZ and Department of Science and Technology
1998 - 2010	Board Member	Centre for Policy Studies
1998	Executive Committee	National Information Technology Forum
1997	South African Expert	Drafting Team of the European Union – South Africa Research and Development Cooperation Programme
	South African Government Delegate	World Bank Knowledge for Development Conference, Toronto, Canada
1997 - 1999	Guest Lecturer	Executive National Security Programme, South African National Defence College.
1996	Coordinator	Drafting Team for the National Research Foundation Act
	Consultant to Scoping Team	National Research and Technology Foresight Exercise
1996 - 1998	Alternative Executive Member	National Science and Technology Forum
1995	Elected Member	Association of KwaZulu-Natal Education and Training NGO's (Executive Committee)
	Elected Member	KwaZulu-Natal NGO Council (Executive Committee)
	Advisor	KwaZulu-Natal Regional Economic Forum (Labour Caucus)
	Secretary of the Education and Training Commission	KwaZulu-Natal Premier's Economic Workshop
	Appointed Member on Policy Matters	KwaZulu-Natal Interim Consultative Committee on Education and Training
1994	Co-convenor	Regional Launch of the South African Council for Adult Basic Education
1993	Organisational Representative	Regional Literacy Cooperative (Provincial Executive Committee)
	Provincial Representative	National Literacy Cooperative (National Executive Committee)
	Convenor: Non-formal Education and Training	Provincial Alliance Reconstruction and Development Coordinating Committee
1991	Staff Member	48th National Conference of the African National Congress (Department of Information and Publicity)
	Elected Secretary General	Students Representative Council - University of KwaZulu-Natal (Executive Committee and Secretariat)
	Member	Academic Freedom Committee, Budget Committee and Guide Plan Committee of the University of KwaZulu – Natal
1990 - 1991	Branch Executive Committee	African National Congress (ANC): Reservoir Hills
1990	Media Officer	South African National Students Congress (Branch Executive Committee)
	Media Coordinator	Mass Democratic Movement: "Campaign against the Natal War"
1989 - 1990	Member	South African National Students Congress (Regional Political Education Collective)
	Founding Member	Black Students Society Labour Committee

	Local Coordinator	Congress of South African Trade Unions and United Democratic Front Defiance Campaign and Consumer Boycott
	BSS Representative	University of Natal Forum Committee
	Elected Publicity Secretary	Black Students Society (BSS) (Secretariat and Central Executive Committee)
	Chairperson	SANSCO delegation to South African Students Press Union
1988	Elected Vice-President	Youth In Progress, South African Youth Congress Affiliate
1988-1993	Various Deployments	Underground Structures of the African National Congress (Information and Publicity; and Intelligence)
1987	President	Students Representative Council - Reservoir Hills Secondary (Executive Committee)
1986	Representative	Natal Students Congress (renamed because of restrictions on Congress of South African Students)
1985	Publicity Officer, Executive Committee and Editor of <u>Student Unity</u>	Students Representative Council - Reservoir Hills Secondary
	Representative	Pre- and Launching Stages of the National Education Crisis Committee
1985	Convenor	Student Action Committee - Reservoir Hills Secondary (demanded establishment of democratic SRC's)

## Selected Teaching and Learning

2018	Master of Management (Public and Development Management)	Research Report	External Examiner	Faculty of Management, University of Witwatersrand.
2018	Southern African Development Community Parliamentarians and High-Level Science, Technology, and Innovation Officials	SADC Parliamentarians and High-Level Officials Training Workshop on STI Policy and Governance	Professor and Course Coordinator	IERI, DST, SADC, and UNESCO
2017	PhD/ DPhil	3 <sup>rd</sup> African Network for the Economics of Learning, Innovation and Competence-building Systems Doctoral Academy: Emerging Innovation Systems for Sustainable Industrial Development in Africa	Invited Professor	University of Oran, Oran, Algeria.
2017	PhD	Thesis/ Dissertation	External Examiner	School of Governance, University of the Witwatersrand, Johannesburg.
2017	Masters Students, Unemployed Urban, and Rural Community Activists	Learning and Teaching Workshop on Critical Issues in Political Economy	Visiting Professor and Co-coordinator	Education Policy Consortium, Centre for Education Policy Development, Nelson Mandela University, Port Elizabeth.
2016	PhD/ DPhil	3 <sup>rd</sup> Indian Network for the Economics of Learning, Innovation and Competence-building Systems Doctoral Academy	Invited Professor	Centre for Development Studies, Trivandrum, India.
2015-current	PhD/ MPhil	Science, Technology, Innovation, and Development	Professor Extraordinary	Centre for Research on Evaluation, Science and Technology, Stellenbosch University, Cape Town.
2014-2015	MSc	Masters Research Reports	External Examiner	Graduate School of Technology Management, University of Pretoria, Tshwane.
2014	MSc	Economics II: economia brasileira; Theory Seminar: PPGE, do PPEd e do PEPI; and “Desigualdade, Transnacionais, e Inovação”	Visiting Professor	Instituto de Economia, Federal University of Rio de Janeiro, Rio de Janeiro, Brazil.
2014	M.S. in Environmental Science and Policy	Department of International Development, Community, and Environment	Visiting Professor	George Perkins Marsh Institute, Clark University, Worcester, USA.
2012-2013	Southern African Development Community Ministries of Science and Technology	High-level Training Course on Science, Technology and Innovation Policy for SADC Countries	Visiting Professor	Manchester Institute of Innovation Research, University of Manchester, Manchester, UK; Innovation and Policy Development, University of Zimbabwe; and UNESCO
2012	PhD/ DPhil	7 <sup>th</sup> Global Network for the Economics of Learning, Innovation and Competence-building Systems International Doctoral Academy:	Visiting Professor	Federal University of Rio de Janeiro, Rio de Janeiro, Brazil.
2012	PhD/ DPhil	Inaugural Indian Network for the Economics of Learning, Innovation and Competence-building Systems Doctoral Academy: Development and Innovation in Emerging Economies	Visiting Professor	Punjabi University, Patiala, India.
2012	PhD/ DPhil	Inaugural African Network for the Economics of Learning, Innovation and Competence-building Systems Doctoral Academy: Innovation and Development in Africa	Visiting Professor	Moi University, Nairobi, Kenya.
2012	Summer School for Sustainable Development	An Alternative at Rio+20: Peoples’ Sustainability Treaties and the	Visiting Professor	Ramapo College, New Jersey, USA.



	Goals	Manifesto		
2011-2013	Short Learning Programme (4 Cohorts)	Science, Technology, and Innovation South Africa	Lecturer and Course Coordinator	Tshwane University of Technology, Tshwane.
2007	Masters	Academy in Government Communication and Marketing	Guest Lecturer	School of Public and Development Management, University of Witwatersrand.
2007–2012 2016-2017	MPhil	Heterodox Economics, Applied Economics Module	Senior Lecturer Extraordinary	Sustainability Institute, University of Stellenbosch, Cape Town.
2006	PhD/ DPhil	2nd Global Network for the Economics of Learning, Innovation and Competence-building Systems International Doctoral Academy: National Systems of Innovation and Economic Development	Invited Lecturer	Instituto Superior de Economia e Gestão, Lisbon, Portugal.
2005	Masters in Management	Public Policy	External Examiner	School of Public and Development Management, University of Witwatersrand
1997-1999	Joint Senior Command and Staff Programme [Executive National Security Programme]	Science and Technology Module	Guest Lecturer	South African [National] Defence College, Thaba Tshwane.

## International Experience

1	Algeria	ⵍⵣⵓⵔ/ People's Democratic Republic of Algeria
2	Argentina	República Argentina
3	Brazil	República Federativa do Brasil
4	Belgium	Kingdom of Belgium
5	Cambodia	Preăh Réachéanachâkr Kâmpŭchea/ Royaume du Cambodge
6	Canada	
7	China	Zhōnghuá Rénmín Gònghéguó
8	Cuba	República de Cuba
9	Denmark	Kongeriget Danmark
10	DRC	Democratic Republic of the Congo
11	Ethiopia	Federal Democratic Republic of Ethiopia
12	Finland	Suomen tasavalta
13	France	République française
14	Germany	Bundesrepublik Deutschland
14	Greece	Ellīnikí Dīmokratía
15	Hong Kong	Hong Kong Special Administrative Region
16	India	Bhārat Gaṇarājya
16	Indonesia	Republik Indonesia
17	Jordan	al-Mamlakah al-Urdunīyah al-Hāshimīyah
18	Japan	Nihon-koku
19	Kenya	Jamhuri ya Kenya
20	Lesotho	Muso oa Lesotho
21	Liberia	Republic of Liberia
22	Malaysia	Persekutuan Malaysia
23	Mexico	Estados Unidos Mexicanos
24	Mozambique	República de Moçambique
24	Netherlands	Koninkrijk der Nederlanden
25	Norway	Kongeriket Norge
26	Portugal	República Portuguesa
27	Russian Federation	Rossiyskaya Federatsiya
28	Rwanda	Repubulika y'u Rwanda
29	Singapore	Republik Singapura
30	South Korea	Daehanminguk
31	Sweden	Konungariket Sverige
32	Tanzania	Jamhuri ya Muungano wa Tanzania
33	Tunisia	al-Jumhūriyyah at-Tūnisīyyah
34	Turkey	Türkiye Cumhuriyeti
35	United Kingdom	United Kingdom of Great Britain and Northern Ireland
36	United States	United States of America
39	Vietnam	Cộng hòa xã hội chủ nghĩa Việt Nam
40	Zambia	Republic of Zambia

Ends  
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