

CURRICULUM VITAE



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EDUCATION

MA (Ed) in Policy, Planning and Management [with distinction] University of London, 1988

PhD (Theoretical Physics), Imperial College, London, 1975

DIC: Diploma of Membership of Imperial College, London, 1971

BSc (Hons) Physics and Applied Mathematics [cum laude], University of Cape Town, 1969

SHORT COURSES

Finance for Non Financial Managers, Graduate School of Business, University of Cape
Town 2005

Project Management, Whitehead Inc, Johannesburg 1998

Executive Course: Developing Information System Strategy, Cranfield Institute of
Technology, 1997

Executive Course: Training the Trainers, Chelsea College, University of London 1985

CAREER PROGRESSION

Professor Extraordinaire, University of the Western Cape
2015 -

Director: Unit for research on the Mobility of the Highly Skilled (MOTHS); Postgraduate
supervision

Professor Extraordinaire, University of Stellenbosch
2012 -

Research in the field of Innovation Studies; Doctoral supervision; Member of the DST/NRF
Centre of Excellence in Scientometrics and Science Policy

Professor Extraordinaire, Tshwane University of Technology, Pretoria.
2009-2011

Research in the field of Innovation Studies

Honorary Research Fellow, University of Stellenbosch

2009-2011

Research in the field of Innovation Studies

Research Fellow, National Research Foundation, Pretoria.

2009-2011

Development of a position paper on higher education performance measurement; evaluation of the South Africa-Norway S&T Bilateral.

Independent Consultant

2008 -

Strategic planning, measurement, monitoring and evaluation, facilitation, and academic research.

Executive Director, Knowledge Systems, Human Sciences Research Council, Pretoria.

2002-2008

Leadership and management of forty staff to implement national surveys, conduct self initiated and client-driven 'social science research that makes a difference.'

Adjunct Professor, Faculty of Science, University of Cape Town.

2002-2005

Provision of strategic advice to the Dean

Special Adviser to the Minister of Science and Technology

2002 -2003

General policy advice and speech writing

Adviser to the Minister of Education

1999-2002

Development of a strategy for science and mathematics education; Development of a strategy for ICT in education; policy advice; speech writing

Professor of Science, Mathematics and Technology Education Faculty of Science, University of Cape Town

1999-2002

Developed and lead a novel initial teacher qualification, the four-year BSc(Ed). Designed unique courses, recruited students and built an academic staff.

Management Consulting

1998-1999

Strategic planning, policy analysis, monitoring and evaluation, organizational development

Chief Director, Corporate Informatics, Gauteng Provincial Government

1996-1998

Lead the Corporate Informatics division to provide WAN connectivity for the Gauteng Provincial Government. Managed eighty staff split across two sites; ensured continuity of services, upgrades and future planning, and disaster recovery.

Adviser to the Director-General, Department of Arts, Culture, Science and Technology,

1995-1996

Advised the Director-General on organizational design; speechwriter to the Minister; design of intervention projects including the Foresight Study, White Paper on Arts and Culture, White Paper on Science and Technology.

Analyst and Acting Director, Centre for Education Policy Development, Johannesburg
1993-1996

Development of policy for Science and Mathematics education; Development of the Intervention Plan for Further Education; Development of the post-school redress programme: Students and Youth into Science, Technology, Engineering and Mathematics. Redesign of the Centre post 1994.

Consultant, Commission of the European Communities, Pretoria
1993

Conduct a sector study on Science and Mathematics Education

Deputy Director, Science Education Project, Johannesburg
1990-1992

Second in command of a forty-person nationwide NGO dedicated to innovative low-cost support for school science teaching.

Associate Professor in Mathematics and Science Education, University of Botswana
1977-1990

Head of Department of thirty staff offering a range of Certificate, Diploma and Degree courses for initial and in-service education of teachers. Curriculum development with the Ministry of Education. Masters supervision; project supervision.

Honorary Research Fellow, Kings College, London,
1988

Research on microcomputers in science education.

Photographer, North London News, London
1976-1977

Photographer on assignment across North London

Certified Teacher, Inner **London Education Authority**, London
1975-1976

Teacher of Mathematics and Physics at "O" and "A" level.

COUNTRY EXPERIENCE

Research consultancy:

Botswana; Brazil; Colombia; Ethiopia; France; Lesotho; Malawi; Mauritius; Mozambique; Namibia; Qatar; South Africa; Swaziland; Tanzania; Zambia; Zimbabwe;

Country studies:

Botswana; Brazil; Canada; European Union; Mozambique; Namibia; Qatar; Russian Federation; Southern African Development Community; United Kingdom; United States; Zimbabwe; Zambia

Meetings, seminars and conferences:

Argentina; Australia; Belgium; Brazil; Canada; China; Denmark; Egypt; Equatorial Guinea; Ethiopia; France; Germany; India; Italy; Japan; Malaysia, Mexico; Netherlands; Qatar; Panama; Peru; Portugal; Qatar; Romania; Russian Federation; Senegal; Spain; Switzerland; Tanzania; Turkey; United Kingdom; United States; Vietnam.

PUBLICATIONS

Peer-reviewed Journals and Conference Proceedings (Selected)

Education

Kahn, M J (1979) Capacitance by Reed Switch **School Science Review** Vol 60, 542.

- (1979) Young's Modulus of a Hacksaw Blade **School Science Review** Vol 60, 554.
- (1980) Monochrome Transparency Processing **School Science Review** Vol 60, 792.
- (1984) Relevance in Science Teacher Education, *Boleswa Education Research Journal* Vol 2, 45-63
- (1986) Bridging the Two Cultures **Research in Education** No 36, 39 – 46.
- (1986) Use of a Syringe for an Instant Vacuum **School Science Review** Vol 68, 115.
- (1987) Capacitors and Energy losses, **Physics Education** Vol 23, 36-37.
- (1989) Teaching Physics in a Technological Context: **School Science Review** Vol 71, No 254, 9-13.
- (1989) Educational Reform and the Dependency Paradigm: some Considerations from Botswana. **Compare**, Vol 19, No.2, 83-93.
- (1989) Issues in Science Education and National Development **Pula Journal of African Studies**, Vol 6 No 2, 38-47.
-
- (1990) Teachers, Tutors and Inspectors: Views Toward Pre-Service Teacher Education **Educational Review** , Vol 42, No 1, 3-12.
- (1990) Some Questions Concerning the Standard and Role of External Examinations **Studies in Educational Evaluation**, Vol 16, 513-527.
- (1990) In the Name of Equity: Curriculum Reform in Botswana **Geneva-Africa**, Vol 28, No 2, 63-76.
- (1990) Paradigm lost: The Importance of Practical Work in School Science from a Developing Country Perspective **Studies in Science Education**, Vol 18, 127-136.
- (1990) Scientific Literacy in Developing Countries **Compare**, Vol 20 No 2, 155-162.

- (1991) Meeting the Shortage of Science Teachers: an Innovation Reviewed **Research in Education** Vol 46, 17 – 23.
 - (1991) Attitudes of Botswana Secondary School Pupils toward Agriculture **International Journal of Educational Development** Vol 11, 201 – 230.
- Kahn, M. J. and Levy, S.(1993) African Lion or African Mouse: the role of technology education in developing industry **Innes Labour Brief** Vol 4, No 4.
- Kahn, M. J. and Levy, S.(1993) Guidelines for private sector spending on mathematics and science education, **Innes Labour Brief** Vol 4, No 4.
- Kahn, M. J. and Rollnick, M.R.(1993) Science Education in the New South Africa: Visions and Reflections, **International Journal of Science Education**, Vol 15, No 3, 261-272.
- Kahn, M. J, Volmink, J. and Kibi, M. (1995) ‘A Comprehensive Solution to the Cycle of Mediocrity in Science and Mathematics Education’, **South African Journal of Science** Vol 91, Sept.
- Kahn, M. J. (1995) Some Policy, Process and Implementation Issues Facing Science Education and Training in post-Apartheid South Africa **International Journal of Science Education**. Vol 17, No 4, 441-452.
- (1996) Some Research Issues and Findings Concerning Funding Policy for Science and Mathematics Education in South Africa (1996). **International Journal of Science Education** , Vol 18, No 5, 511-523.
 - (1996) ‘Five years on: a case study of education policy implementation in South Africa’, **International Journal of Educational Development** Vol 16 No 3, 281-289.
 - (2001) ‘Changing science and mathematics achievement: Reflections on policy and planning’ **Perspectives in Education** Vol 19 No 3, 169-176.
 - (2004) ‘For whom the school bell tolls: disparities in performance in senior certificate mathematics and physical science’ **Perspectives in Education** Vol 22 No 1, 149-156.
 - (2005) ‘A Class Act: Mathematics as filter of equity in South Africa’s schools’ **Perspectives in Education** Vol 23, No 3, 139-148.

Research and Innovation Policy

Kahn, M.J. and Swanborough, R.(1999) ‘IT in Public Sector Reform’ University of Manchester Institute of Public and Development www.sed.manchester.ac.uk/idpm/publications/wp/igov/

Kahn, M. J. and Asmal, A.K. (2000) ‘The Knowledge Economy: Fact or Fiction?’ **South African Journal of Business Management** Vol 34, No 4, 131-136.

- Kahn, M. J. and Reddy, B.D. (2001) 'Science and Technology in South Africa: Regional Innovation Hub or Passive Consumer?' **Daedalus** Vol 130, No 1, 205-234.
- Kahn, M. J. (2001) 'Developing mechanisms to promote South-South Research in Science and Technology: the case of the Southern African development Community' **African Sociological Review** Vol 5, No 1, 17-35.
- (2002) 'Charting a course for South Africa's science and technology: who is the pilot?' **New Agenda** Vol 5, No 1, 96-112
- Blankley, W. and Kahn, M.J. (2004) 'R&D in SA' **South African Journal of Science** Vol 100, 9-11.
- Kahn, M. J. and Gering, M.Z. (2004) 'Information for Decision Making in Government' **Administratio Publica** Vol 12, No 2, 102-118.
- Kahn, M.J.(2004) 'The Human Genome: Access, Frameworks, Resources in Curriculum Action (AFRICA)' **Journal of Genomics and African Society** Vol 1, No 1, 13-24.
- Kahn, M.J. and Blankley, W. (2005) 'The changing face of South Africa's national system of innovation, 1991–2001' **Industry and Higher Education** April 2005, 121-130.
- Blankley, W. and Kahn, M.J. (2005) 'The History of Research and Experimental Development (R&D) measurement in South Africa and some current trends' **S A Journal of Science** Vol 101 No 3/4, March/April, 151-156.
- Kahn, M. J. (2006) 'The South African national system of innovation after Apartheid: from constructed crisis to constructed advantage?' **Science and Public Policy** Vol 33, No 2, 125-136.
- (2007) Internationalization of Research and Development: Where does South Africa stand? **South African Journal of Science** Vol 103, 7-12.
- Kahn, M.J., Vlotman, N., Steyn, C., and Van der Schyff, M. (2007) 'Innovation Policy and Higher Education in South Africa: Addressing the Challenge.' **South African Review of Sociology**. Vol 38, No 2, 176-190.
- Kahn, M.J. and Gastrow, M. (2008) 'Pharmacologically active: clinical trials and the pharmaceutical industry.' **South African Medical Journal** Vol 95, No 3, 630-632.
- Steyn, C. and Kahn, M. J. (2008) 'Towards the Development of a Knowledge Management Practices Survey for Application in Knowledge Intensive Organisations' **South African Journal of Business Management**. Vol 39, No 1, 45-53.
- Kahn, M. J.(2008) 'Africa's Plan of Action for Science and Technology and Indicators: South African experience', **African Statistical Journal** Vol 6, 163-176.

- (2008) 'Foresight in South Africa: Estimating results through the prism of time,' **The Foresight** (in Russian) Vol 2, 56-65.

- Kahn, M.J. and Hounwanou, L. (2008) 'Research and Development in the Services Sector of an Emerging Economy: the case of South Africa' **Science and Public Policy** Vol 35, No 7, 515-526.

- Kahn, M. J. (2009) 'Innovation strategy of South Africa under transition: technology in the time of cholera.' **The Foresight** (in Russian) Issue 2, 4-14.

- Liebenberg, F., Philip G. Pardey and Michael Kahn (2010). South African Agricultural Research and Development: A Century of Change. Staff paper series, Department of Applied Economics, University of Minnesota.
<http://harvestchoice.org/files/Liebenberg%20et%20al%202010%20UMN%20--%20South%20African%20Agricultural%20Research%20and%20Development-%20Century%20of%20Change.pdf>

- Kahn, M. J. (2011) 'A bibliometric analysis of South Africa's scientific outputs – some trends and implication' **S A Journal of Science** Vol 107, No 1-2, 1-6.

- Liebenberg, F., Philip G. Pardey and Michael Kahn (2011) South African Agricultural R&D Investments: Sources, Structure, and Trends, 1910-2007. **Agrekon** Vol 50, No 2, 1-26.

- Kahn, M. J. (2011) 'The fall of the Wall, the rise of the BRICs and the new scramble for Africa' **Foresight** Vol 13, Issue 3, 38 – 49.

- Kahn, M J (2011) 'Innovation policy in South Africa – paradoxes, progress and prospects' **Acta Academica Supplementum** 2, 1-19.

- Kahn, M J (2011) 'The BRICS and South Africa as the gateway to Africa.' **SA Institute of Mining and Metallurgy** Vol 111, No 7, 493-6.

- Kahn, M J (2012) Book Review: 'Daron Acemoglu and James A. Robinson, Why Nations Fail: The Origins of Power, Prosperity and Poverty' **African Journal of Science, Technology, Innovation and Development** Vol 4, No 3, 215-8.

- Gault F, Bell M, Kahn M .J, Muchie M and W Wamae (2012) 'Building capacity to Develop and Use STI indicators for grassroots innovation,' **African Journal of Science, Technology, Innovation and Development**, Vol 4, No 3, 22-31.

- Kahn, M J (2013) 'Natural resources, nationalism and nationalization, **SA Institute of Mining and Metallurgy** Vol 113, 3-9.

- Kahn, M J (2013) 'Rhetoric and change in South Africa's innovation policy', **Science, Technology and Society** Vol 18, No 2, 189-211.

- Kahn, M J (2013) ICT innovation in South Africa – Lessons learnt from Mxit, in **Proceedings of ITU Kaleidoscope: Building Sustainable Communities (K-2013)**, pp 1-6 Kyoto, Japan. Washington: IEEE ISBN 978-1-4673-4676-4
- Ho, Y.S. and Kahn, M. J. (2014), A bibliometric study of highly cited reviews in the Science Citation Index Expanded. **Journal of the American Society for Information Science**, Vol 65, No 2, 372–385.
- Kahn, M J (2014) ‘The rise of the BRICS and resource nationalism: challenge and opportunity for Africa’s innovation systems’, **African Journal of Science, Technology, Innovation and Development** Vol 6, No 5, 369-381.
- Kahn, M J (2014) BRICS cooperation in science, technology and innovation: rhetoric and realities, **Revista Contexto Internacional** (in Portuguese) Vol 37, No 1.
- Kahn, M J (2014) BRICS cooperation in science, technology and innovation: rhetoric and realities, <http://www.federalismi.it/nv14/articolo-documento.cfm?Artid=27751> [As above; English]
- Kahn, M J (2015) ‘Prospects for cooperation in science, technology and innovation among the BRICS’, **International Organizations Research Journal** Vol 10, No 2. (In Russian) <http://iorj.hse.ru/en/2015-10-2/152401316.html>
- Kahn, M J (2015) Mobility of the highly skilled – toward a non-racial South Africa **Science, Technology and Society** Vol 20, No 3, 1-20.

Consulting and Reports

- Kahn, M J (1990) Development of Science Teacher Education. University of Namibia
- Dock A and Kahn M J (1992) ODA/World Bank/ ANC study on Education, Johannesburg
- Kahn M J and Levy S (1992) Science and mathematics education policy, National Education Policy Investigation, Johannesburg
- Kahn M J (1993) Sector Study on Science and Mathematics Education. Commission of the European Communities, Pretoria
- Kahn M J (1993) Building the Future – policy for Science and Technology, African National Congress, Johannesburg
- Kahn M J, Volmink, J and Mphahlele, L (1994) ANC Implementation Plan for Education and Training (S&T and Further Education), Centre for Education Policy Development. Johannesburg

- Kahn M J (1994) Evaluation of the University Education Development Programme. University of Natal
- Bruinsma, O and Kahn M J (1995) Cooperation in science and mathematics for SADC states, NUFFIC, Den Haag
- Kahn M J et al (1995-6) White Paper on Arts and Culture. Department of Arts, Culture, Science and Technology, RSA
- Kahn M J (1995) Team member, Green Paper on Science and Technology, Department of Arts, Culture, Science and Technology
- Kahn M J (1995-6) Team Leader, Design and feasibility study for a National Research and Technology Foresight study. Department of Arts, Culture, Science and Technology, RSA
- Kahn M J, Gering, M. and Masemola, P (1998) Performance Measurement System for the Science Councils. Department of Arts, Culture, Science and Technology, RSA
- Kahn M J (1999). Toward an Education Management Information System. Ministry of Education and Culture, United Republic of Tanzania
- Kahn M J (1999). Framework for S & T Cooperation with SADC States. Department of Arts, Culture, Science and Technology, RSA
- Kahn M J (1999). Synthesis Report of the National Research and Technology Foresight study, Department of Arts, Culture, Science and Technology, RSA
- Kahn M J and Gering, M (2001). Information for Corporate Decision Making, Department of Public Service Administration, RSA
- Kahn M J, Volmink, J and Mphahlele, L (2001). National Strategy for Improving Science and Mathematics Education, Ministry of Education, RSA.
- Kahn M J (2001) National Strategy for Information and Communication Technology in Education, Ministry of Education, RSA
- Kahn M J (2001). Strategy toward a Biological Resource Centre, Agriculture Research Council, RSA
- Gering, M.Z, Masemola, P and Kahn M J (2003). Review of the Performance Measurement System of the Science Councils, Department of Science and Technology
- Kahn M J and Moodley, S (2004) Final Report of the Presidential National Commission on the Information Society and Development, RSA

- Kahn M J et al (2004) Main Results of the 2001/02 R&D Survey, Department of Science and Technology, RSA.
- Kahn M J (2005). Strategic Plan for the African Observatory of Science, Technology and Innovation, NEPAD S&T Secretariat, Pretoria
- Kahn M J (2005). Strategy for Agriculture R&D, National Department of Agriculture, RSA
- Kahn M J et al (2005). Main Results of the 2003/04 R&D Survey, Department of Science and Technology, RSA
- Kahn M J and Steyn C (2006). Knowledge Management Practices Survey, Human Sciences Research Council
- Kahn M J et al (2006). Main Results of the 2004/05 R&D Survey, Department of Science and Technology, RSA
- Pedlar P and Kahn M J (2007) Business case for the Foundation for Technological Innovation, Department of Science and Technology, RSA
- Kahn M J (2007) Human Resources for R&D, in National Agriculture R&D Strategy , Department of Agriculture
- Kahn M J (2007) Technology 2019, Presidency Scenarios 2019 process
- Kahn M J et al (2007) Innovation Survey 2005, Department of Science and Technology, RSA
- Kahn M J et al (2007). Main Results of the 2005/06 R&D Survey, Department of Science and Technology, RSA
- Kahn M J (2007) Benefits of Publicly funded R&D, National Advisory Council on Innovation.
- Kahn M J (2008) The design and implementation of R&D and Innovation Surveys, African Science, Technology and Innovation Indicators Initiative, AU-NEPAD S&T, Pretoria, South Africa
- Kahn M J (2008) Scoping Study Toward an Observatory of Science and Technology, IDRC
- Kahn M J (2008) Metrics for Development, IDRC
- Kahn M J (2008) Developing capacity to produce S&T Indicators, African Union Advisory Council on Innovation, RSA

- Kahn M J (2009) Knowledge and Innovation – S&T education in South Africa, World Bank
- Kahn M J (2009) Measuring Research and Development and Innovation in Latin America and the Caribbean. Inter-American Development Bank, Washington
- Kahn M J (2010) The State of Social Science Research. International Social Science Council, Paris
- Kahn M J (2010) Addressing the shortage of data on the Social Sciences and Humanities. European Science Foundation, Strasbourg and International Social Science Council, Paris
- Kahn M J (2010) Innovation, Finance and Funding in the National System of Innovation – The South African Experience. BRICS Project, Federal University of Rio de Janeiro, Brazil.
- Kahn M J (2010) What are the knowledge gaps concerning South Africa’s innovation system? Paper for the Ministerial Review Commission, pp. 25.
- Kahn M J (2011) Toward a Higher Education Performance Measurement System, research paper, National Research Foundation, Pretoria
- Kahn M J (2011) Impact Study of the South Africa-Norway Science Collaboration Agreement, 2007-2010, National Research Foundation, Pretoria
- Kahn M J (2011) The New Context for Science, Technology and Innovation: What role for Research Councils? Centre for Strategic Management Studies, Brasilia, Brazil.
- Lee A and Kahn M J (2011) Securing the talent pipeline. A strategic study for the International Gas Union. Deloitte Consulting Malaysia, pp240.
- Kahn M J (2011) Governance of innovation systems: some implications. A Paper for the Ministerial Review Committee, pp44.
- Kahn M J (2011) The Future Trajectory of Science, Technology and Innovation In South Africa’s Development, A Paper for the National Planning Commission, pp30
- Kahn M J (2011) MTEF Proposal for an R&D Survey, Qatar Statistics Authority, Doha.
- Kahn M J (2012) Mocambique is working, consultancy report to the STIFIMO project of Mocambique and Finland. pp80
- Kahn M J (2012) The politics of resource nationalism, SA Institute of Mining and Metallurgy

- Kahn M J (2012) Guidelines for the conduct of R&D Surveys in Developing Countries, UNESCO Institute for Statistics, Montreal, Canada
- Pogue, T, Kraemer-Mbula, E Kahn M J (2012) ERAwatch Report: South Africa 2011, European Commission
- Gevers, W, Kahn M J and Moore, R (2012) Report of the Ministerial Review Committee on the Science and Technology Landscape, Ministry of Science and Technology, Pretoria.
- Kahn M J (2012) Evaluation of the Mocambique Strategy for Science, Technology and Innovation, Ministry of Science and Technology, Maputo
- Kahn M J (2012) Roadmap for the Qatar R&D Survey, Qatar Statistics Authority, Doha.
- Kahn M J (2012) The role of business in education, a position paper for the Centre for Development and Enterprise, Johannesburg, South Africa.
- Halme K and Kahn M J (2012) Toward BioFISA II, consultancy for the Finland Ministry of Foreign Affairs.
- Kahn M J (2012) Training workshop on Measuring the Inputs to R&D, Gulf Cooperation Council, Doha, October 15-17.
- Ruigrok I and Kahn M J (2013) Review of the S&T Cooperation Agreement between the European Union and South Africa, European Commission
- Kahn M J (2013) The status of Science, Technology, Engineering and Mathematics education in South Africa. Australian Council of Learned Academies, Canberra, Australia.
- Kahn M J (2013) R&D Survey of Qatar. Design, develop and implement the first Frascati-compliant survey of R&D, including the use of on-line questionnaires. Ministry of Development Planning & Statistics, Doha.
- Kahn M J (2013) Evaluation of the Support Programme for Industrial Innovation, Genesis Analytics, Johannesburg. For The Presidency.
- Kahn M J and Comins N (2013) Review of the state of the Science, Technology and Innovation System in South Africa, Academy of Sciences of South Africa for the Department of Science and Technology.
- Kahn M J and L Sanz- Menendez (2014) Toward an Innovation Framework for the SADC Member States. A report for the Southern African Innovation Support programme, Innovos Group, Argentina. <http://www.saisprogramme.com/wp->

[content/uploads/2014/05/SAIS-Regional-Innovation-in-the-SADC-Region_Final-Report_May20141.pdf](#)

Kahn M J (2014) Impact Evaluation of the National Research Foundation. Expert on socio-economic impacts for the Stellenbosch University School of Public Leadership.

Kahn M J (2014) Innovation Leadership Development. A project for the Southern African Innovation Support programme (with Ramboll Group). Workshops delivered in Windhoek, Lusaka and Gaborone, March 2014.

Kahn M J (2014) Analysis of the landscape of Social Science Research in South Africa. A report for the UK Department for International Development (with CREST, Stellenbosch University).

Kahn M J (2014) Guide to Conducting an R&D Survey: For countries starting to measure research and experimental development. Technical Guide of the UNESCO Institute for Statistics (main contributing author).

Kahn M J (2014) R&D Survey of Qatar. Close out and evaluation of R&D Survey 2012/13, Ministry of Development Planning & Statistics, Doha.

Kahn M J (2014) International review of STI Indicator best practice. CoE/CREST Stellenbosch University.

James C, Lehtonen T, Kahn M J, Ahoonen S and M Ribelo (2015) Programme document for the Southern African Innovation Programme. NIRAS for Ministry of Foreign Affairs, Helsinki

Kahn M J (2015) Prospects for a Green Economy: Policy Briefs on the transition from post conflict reconstruction to structural transformation - lessons of experience in the Horn of Africa. Addis Ababa: UN Economic Commission for Africa

Books and Chapters in books

Kahn, M. J. and Swartland, J (1982) **Botswana, our country in Pictures**. Gaborone: Macmillan Botswana

Kahn, M. J. (1989) 'Indicators of Equity in Botswana Education', in Datta, A. and King, K. (Eds.) **Botswana: Education, Culture and Politics**, Edinburgh: Centre of African Studies

- (1990) 'Science Education reform and the Dependency Paradigm' in Snyder, W and Ramatsui, P T. (Eds.) **Curriculum in the Classroom**. Gaborone: Macmillan Botswana

- (1991). 'Microcomputing and Control' in Julie, C, Manie, A, Meerkotter, D, Producers, R, and Reeler, D. (Eds.) **Computers for Transformation in Education** Cape Town: Wyvern

- (1993) **Building the Base: A Sector Study on Science and Mathematics Education**
Pretoria: Commission of the European Communities pp 103

- Kahn, M. J. and Makhurane, P. (1998) 'The Role of Science and Technology in Development' in
Naidoo, P. and Savage, M.(Eds.) **African Science and Technology Education: into the
new Millenium** Cape Town: Juta

- Kahn, M. J. and Volmink, J.D. (2000) **Mathematics and Science education in the Context of
Lifelong Learning** Pretoria: Department of Education, pp. 38

- Kahn, M. J. (2002) 'Promoting Co-operation in Science and Technology in the SADC Region' in
Savage, M. and Naidoo, P. (Eds.) **Popularisation of Science and Technology Education:
Some Case Studies from Africa** London: Commonwealth Secretariat

- (2002) 'Tentative Steps Toward South-South Cooperation: the case of South Africa
and SADC in Mouton, J., Waast, R. and Ritchie, F. (Eds.) **Proceedings of the Science in
Africa Symposium** Stellenbosch: Centre for Interdisciplinary Studies

- Kahn, M. J., Mphahlele, K.M. and Volmink, J.D (2003) 'Modernizing the curriculum - the politics
of technology education in South Africa' in Graube, G, Dyrenfurth, Michael J, and
Theurkauf, Walter, E. (Eds.) **Technology Education – International Concepts and
Perspectives** Frankfurt: Peter Lang Verlag

- Kahn, M.J, Blankley, W, Reddy, V, Pogue, T, and Maharajh, R. (2004) **Flight of the Flamingoes: A
study on the Mobility of R&D Workers** Pretoria: HSRC pp140

- Kahn, Michael and Blankley, William (2006) 'The State of Research and Development' in
Buhlungu, S, Daniel J, Southall, R and Lutchman, J (Eds.) **State of the Nation South
Africa 2005-2006 Cape Town:** HSRC Press

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Publishing p 127-137

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the State" in **Integrating Science & Technology into Development Policies: An
International Perspective.** Paris: OECD Publishing

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South African higher education,' in Kishun, R. (Ed.) **The Internationalisation of Higher
Education in South Africa.** Durban; International Education Association of South Africa

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2006** (HSRC Press, Cape Town)

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- (2011) with Cooper, D. 'Introduction: A short overview of South African research and innovation' in Cooper, D. **The University in Development: case studies of use-oriented research**. Cape Town: HSRC Press. p149-166.
- (2012) 'Implementing a Research Data Access Policy in South Africa' in Kathie Bailey Mathae and Paul F. Uhlir (Eds) **The Case for International Sharing of Scientific Data: A Focus on Developing Countries Proceedings of a Symposium**. Washington, National Academies Press.

Kahn M J, De Melo L M and Matos, M. (Eds) (2014) **Financing innovation** New Delhi: Routledge, pp 256.

Kahn M J. (2014) "South Africa", in Kahn M J, De Melo L M and Matos, M. (Eds) (2014). **Financing innovation** New Delhi: Routledge p201-236.

Kahn M J, De Melo L M and Matos, M. (2014) The Financing of Innovation, in Kahn M J, De Melo L M and Matos, M. (Eds) (2014). **Financing innovation** New Delhi: Routledge p1-20

Kahn M J, De Melo L M and Matos, M. (Eds) (2014). **Financing innovation** New Delhi: Routledge, pp 256.

Ruigrok, I and Kahn M J (2014) **Review of the Science and Technological (S&T) cooperation Agreement between the European Union and South Africa** Brussels: Directorate-General for Research and Innovation, European Commission. pp 56.

Kahn M J. (2014) STEM education in the quest to build a new South Africa, in Freeman, B., Marginson, S., and R Tytler (Eds) **The Age of STEM Educational policy and practice across the world in Science, Technology, Engineering and Mathematics**. London: Routledge

Schmoch U and Kahn M J (2015) Technologie und Innovationspolitik, in de la Fontaine, D., Müller, F., Hofmann, C., Leubolt, B. (Eds) *Das politische System Südafrikas*. Berlin: Springer VS (In German)

Kahn, M J (2015) 'BRICS Cooperation in Science, Technology and Innovation: Rhetoric And Realities' in Scaffardi, L (Ed) **The BRICS Group in the Spotlight: An interdisciplinary approach**, Collana della Facoltà di Giurisprudenza dell'Università degli Studi di Parma Vol 5, 85-106, ISBN 9788849529654

Invited addresses, Conferences and Workshops (post 1994)

Kahn M J. (1994) Paper: 'Technology as subject, within Science, or across the curriculum? 7th Conference of the International Organisation for Science and Technology Education, Veldhoven, Netherlands

- (1994) Paper: 'Education under the new flag', (invited) to the Independent Examinations Board User Conference, Johannesburg
- (1995) Paper: 'From Policy to Implementation: the "SYSTEM" initiative as a case study', 3rd Annual Meeting of SAARMSE, Cape Town, 1995

Kahn M J, Volmink, J., Naidoo, P. and Mhlongo, M. (1995) Paper: 'Planning Science Education at Secondary Level' South African Country Paper presented to the IIEP Science Planning Forum, Magaliesburg

Kahn M J. (1995) Paper: 'The Role of Science and Technology in Development: the case of Africa', invited respondent to Prof. P. Makhurane at the African Science and Technology Educators meeting, UDW, December 1995

- (1995) Paper: 'From invention to innovation: can science education do it?' International Conference on Improving the Effectiveness of Science Teaching", Windhoek, December 1995
- (1997) Paper: 'Gender imbalances in Technical Education', Committee on Gender Inequality in Education, 1997
- (2000) Paper: 'The African Century: Challenges and Opportunities for Science and Technology'. Keynote address to Science and Technology Educators Conference, Cape Town, 22 September, 2000
- (2001) Paper: 'The Emerging Strategy for Science, Mathematics and Technology Education' Keynote address to International Conference on Technology Education, Cape Town, 3 – 6 October, 2001
- (2004) 'Now and then: an innovation system in transition,' paper presented at the 10th Schumpeter Conference "Industrial dynamics, innovation and transformation – Schumpeterian legacies" Milan, Italy, June 9 to 12 2004
- (2005) 'Overview of HRD and R&D Policy: Recent Research and Indicators.' Background document for the Human Resources for Knowledge Production Conference, Cape Town, Department of Science and Technology
- (2005) 'Agricultural R&D' presentation to the National Agriculture Research Forum, Pretoria

- (2005): 'Measuring and Mapping African National Systems of Innovation' invited panelist at Globelics 2005, Pretoria
- (2005) 'Measuring International Cooperation in S&T for Sustainable Development' invited panelist, OECD-SA Conference, Pilanesberg, 21-22 November 2005
- (2006) Paper: 'Overview of the South African System of Innovation – a gender perspective' concept paper for the National Advisory Council on Innovation
- (2006) Invited address: Going global: working with South Africa's universities.' University of Kwazulu-Natal Conference on Globalization of research and development: Challenges and opportunities for South Africa higher education, Durban, 25 August 2006
- (2006) Seminar: Science and Technology Policy in Transition Countries: Experience of South Africa. Higher School for Economics, Moscow
- (2006) Paper: Measuring 'SERVERD' – pie in the sky or substantive activity? OECD-Statistics 'Blue Sky II' conference Ottawa Canada, 25-27 September 2006.
- (2007) Invited address 'Innovation and R&D in the Services sector of an emerging economy: some micro evidence from South Africa' Micro evidence conference UNU-Intech/MERIT, Maastricht
- (2007) Keynote address 'Innovation and Growth' International Futures Conference, Institute for Future Studies, University of Stellenbosch
- (2007) Invited address 'Toward a Knowledge Economy' SA-EU Conference Marking Ten Years of S&T Cooperation, Cape Town
- (2008) Invited seminar 'Getting the measure of the South African system of innovation' Royal Society of South Africa, March 2008
- (2008) Invited seminar 'Understanding R&D and Innovation in Services; evidence from South Africa' Science Policy Research Unit, University of Sussex
- (2008) Discussant World Bank-OECD 'Innovation and Sustainable Development,' Paris
- (2009) Invited discussant UNESCO-OECD 'Innovation and Development: Translating knowledge into value,' Paris
- (2009) Paper: 'Innovation Strategy of South Africa under Transition: Technology in the Time of Cholera,' X-th International Academic Conference on Economic and Social Development, Higher School for Economics, Moscow, 7-9 April 2009
- (2009) Paper: 'From isolation to Openness' Third UNU-MERIT MEIDE Conference, Rio de Janeiro

- (2009) Paper: 'Triple helix partnerships and South Africa's innovation plan – clues to likely success' 7th Triple Helix Conference, University of Strathclyde, Scotland
- (2010) Keynote speaker 'Innovation and development,' 2nd Innovation Summit, Johannesburg
- (2010) Keynote Speaker 'The Changing face of Innovation in South Africa,' Innovation Festival 2010
- (2010) Trainer: 'Learning about innovation and the use of indicators training workshop,' Institute for Economic Research on Innovation, Pretoria, September 2010
- (2010) Trainer: 'Addressing the Shortage of Data on the Social Sciences and Humanities.' Facilitated workshop for the European Science Foundation/ International Social Science Council, Strasbourg 14-15 September 2010.
- (2011) Keynote speaker 'Toward the African Observatory on STI' African Union Workshop, Malabo, Equatorial Guinea, 20-21 January 2011.
- (2011) Invited speaker 'Roaring ahead: LDCs, growth, and the role of S, T & I' Preparatory workshop for the 4th United Nations Conference on the LDCs, Istanbul
- (2011) Invited speaker 'Implementing a research data policy in South Africa', BISO-BRDI-CFRS Symposium. The National Academies, Washington D.C.
- (2011) Invited speaker: 'Evidence based STI Policy formulation, strategy and planning. The SA case and why indicators matter.' UNESCO SCIGAP Roundtable, Paris
- (2011) Keynote address: 'Implications of a bibliometric analysis of South Africa's outputs in clinical science.' UCT Clinical scholars programme workshop.
- (2011) Keynote speaker: 'Research centres in the periphery - the grand challenges, the South, and agency.' Joint Seminar of NIRPA, NordForsk and Academy of Finland on Research Policies for Grand Challenges – Strategies and Tools, Helsinki
- (2011) Paper: 'The New Growth Path, PROs and the Developmental State,' Globelics 2011, Buenos Aires
- (2011) Invited address: 'The Measurement of R&D and Its Relevance to Innovation Policy, Workshop on Measuring R&D Outcomes Jointly Organized by the Qatar Foundation and QSA Doha
- (2012) Invited address: 'Innovation policy in turbulent times', Innovation and Development and Africalics conference, Dar es Salaam, Tanzania,

- (2012) Invited address: 'The National Development Plan, system of innovation, and higher education,' 2nd Higher Education SA Research and Innovation Conference, Pretoria
- (2012) Keynote speaker: 'Building Science, Technology and Innovation Capacities in Africa: The role of an African Observatory for STI' African Union/NEPAD intergovernmental meeting on AOSTI, Malabo, Equatorial Guinea
- (2012) Paper: 'Innovation Policy and the Developmental State', Innovation Management IM2012 Conference, Beijing, China.
- (2012) Invited address: 'Nurturing the future generations' 25th International Gas Congress, Kuala Lumpur
- (2012) Paper: 'Innovation policy and the Developmental State' XV111 South African Sociology Association Conference, University of Cape Town
- (2012) Keynote speaker: 'Management challenges and the innovation system,' SARIMA 10th anniversary conference, Port Elizabeth
- (2012) Invited address: 'Toward a new social contract,' DST-HSRC conference 'A scientific temper for the BRICS – the agenda for youth' CSIR, Pretoria
- (2012) Invited address: 'Challenging dependency – the rise in S&T networking as evidenced through co-publication,' LAP 2020 Conference: EURO-BRICS process- toward a set of thematic cooperation networks, Cannes, France
- (2012) Keynote speaker: 'Innovation policy for inclusion: the case of South Africa,' UNESCO International Symposium on Accelerating Innovation in Developing Countries, Kuala Lumpur
- (2012) Keynote speaker: 'Innovation and inequality: is there a trade off?' OECD-DST UNESCO International Conference on Inclusive Innovation, Cape Town
- (2013) Paper: 'ICTs and development: the case of Mxit' ITU Conference on ICTs and Development, Kyoto, Japan
- (2013) Invited discussant: 'IPRs, brain drain and innovation' WIPO Workshop, Geneva
- (2013) Invited address: Resource nationalism and the BRICS: threats & opportunities for innovation systems, LEAP-MGIMO 4th Euro-BRICS Seminar, Moscow
- (2013) Invited address: 'The BRICS and Global Governance – South African perspectives' Conference on BRICS Universities in strategic cooperation, Fudan University, Shanghai, China
- (2013) Paper: 'Spillovers from military R&D: a tale of three companies,' Innovation Summit 2013, Industrial Development Corporation, Johannesburg

- (2013) Invited address: 'Resource nationalism, Africa and the BRICS,' 37th ANPOCS Conference, Aguas da Lindoia, Brazil
- (2013) Lead and facilitator: Training workshop on conducting an R&D Survey, 28-30 October, 2013, Doha, Qatar.
- (2013) Invited discussant: UNIDO General Conference. The LDC Ministerial Conference, Lima, Peru
- (2014) Invited discussant: South-South Partnerships and the Role of Europe, inaugural Conference of the new program Point Sud La Coopération Scientifique Sud-Sud Et Le Rôle De L'Europe, Stellenbosch Institute for Advanced Studies, Stellenbosch
- (2014) Paper: SMEs and the telemetry system of innovation IAMOT 2014, Washington 22-26 May 2014
- (2014) Invited Paper, Research evaluation: the quest for maximum impact, International Workshop "Science assessment and research integrity", Beijing, China, 9 April 2014
- (2014) Paper: The SADC innovation space: what role South Africa? IAMOT 2014, Washington D C
- (2014) Paper: Globalization of research through regional collaboration: South Africa's role in SADC innovation policy and practice, SARIMA Conference 2014, Gaborone, Botswana
- (2014) Co-facilitator: 'Toward the Stellenbosch innovation District', Stellenbosch 30-31 October
- (2014) Keynote speaker: 'Innovation in practice in Southern Africa; Insights from the SAIS regional study' Southern Africa Innovation Forum (SAIF), Johannesburg 5-6 November
- (2014) Invited speaker: 'BRICS cooperation in science, technology and innovation: rhetoric and realities,' The BRICS group in the spotlight: an interdisciplinary approach, Conference at Parma University, Italy 6-7 November.
- (2015): Keynote Speaker 'Ownership: Reflections on the contract between science and society', DFG-UNU Conference on Science and Sustainable Development, New York, 23-24 April.
- (2015): Paper 'Challenging dependency: opening the SADC innovation space,' University-Industry Interaction Conference, Berlin, Germany, 24-26 June.

- (2015): Invited Keynote 'Challenging dependency: opening the SADC innovation space,' Research and Innovation Network, Creil, France 26 August.
- (2015): Invited Keynote 'Thought for Food: Perspectives on Agricultural R&D in the SADC,' 2nd Seminar on Innovation and Development: Politics of Research and Innovation, CIRAD, Montpellier, France, 1 September.

PUBLIC SERVICE

Medu Arts Ensemble, Convenor of photography, Gaborone, Botswana.
1979-1985

ANC Interim Science and Technology Group, member and head of S&T Education Commission
1990-1994

Science and Mathematics Group, National Education Policy Initiative, Convenor
1991-1993

Southern African Association for Research in Science and Mathematics Education, co-founder
and Board member
1993-1996

Foundation for Education, Science and Technology, Board member and Chair of Council
1996-2002

Northern Museums Flagship Institution, Board Member
1999-2003

Joint Matriculation Board, Board Member
2000-2002

Interactive Science Foundation, MTN Sciencentre, Board Member
2002-2010

Presidential Commission on the Information Society and Development, Member
2002-2004

OECD working party of National Experts on Science and Technology Indicators (NESTI), South
African representative.
2002-2008

Multichoice Foundation, Board Member
2003-2005

Southern African Research and Innovation Management Association, Member of Executive
Committee.
2004-2007

Agricultural Research Council, Vice Chairperson 2015-
Chairperson R&D and Evaluation Committee 2006-2015; Chairperson Strategy Committee 2015-

Research Policy Advisory Editor (Elsevier)
2006 –

OECD working party of **National Experts on Science and Technology Indicators (NESTI)**.
Member, Advisory Board
2008-2010

Ministerial Review Committee on Science and Technology, Member.
2010-2012

Rhodes High School School Governing Body, Mowbray, Cape Town. Member.
2012-2013

Euro BRICS Young Leaders Summit Member, Advisory Board,
2015

AWARDS AND HONOURS

Dux Medal and Salamon Award, Sea Point Boys High School, Cape Town
1965

CSIR Merit Scholarship, Pretoria
1969

Crasnow Scholarship, University of Cape Town
1970

Honorary Research Fellow, Chelsea College, London
1988

National Science and Technology Forum, Runner up – ‘Individual contribution to SET over a lifetime’
2003

Academy of Science of South Africa, Elected Member
2008 -

Honorary Research Fellow, CREST, Stellenbosch University
1988

De Swardt prize for the best article in Agrekon, 2011 (jointly with Pardey, P and Liebenberg, F)
2011

Centro de Gestão e Estudos Estratégicos (Brazil) International Research Fellow
2011

20 August 2015