

Macroeconomic Sector Analyses and Systems Dynamics Executive Training Course

A Quantum Global Research Lab Training Course: Hosted at Stellenbosch University, South Africa

10 November – 19 December 2014

INTRODUCTION

This course was initiated by the Quantum Global Research Lab AG (QGRL), established in Zug, Switzerland to lead innovation and excellence in delivering bottom-up models for inclusive development and sustainable investment decision-making in African countries. This course is hosted by the QGRL in partnership with the School of Public Leadership and Sustainability Institute, Faculty of Economic and Management Sciences, Stellenbosch University, under the auspices of a Memorandum of Understanding between the Quantum Global Research Lab and Stellenbosch University. Subsequently, the Analysts will receive further training on country-specific analyses, and other relevant subjects as well.

Course Director Prof. Kevin Chika Urama, Managing Director, Quantum Global Research Lab AG, Bahnhofstrasse 2, 6300, Zug, Switzerland, email: kevin.urama@quantumglobal.ch, Tel: +41 (41) 560 29 34 · Mobile +41 (79) 126 86 07

Technical Course Coordinators:

Dr. Fernando Barbi, Macro-Economist, Quantum Global Research Lab AG, Bahnhofstrasse 2, 6300, Zug, Switzerland, fernando.barbi@quantumglobal.ch, Tel: +41 (79) 948 27 90

Dr Jeremy Wakeford, Senior Lecturer, School of Public Leadership at Stellenbosch University (jjwakeford@gmail.com) +27(0)71 210 8204

Course Host: Prof Mark Swilling, Distinguished Prof. of Sustainable Development, Stellenbosch University, South Africa (mark.swilling@spl.sun.ac.za) +27(0)83 459 4717

Course Facilitators:

Global: Beat Fornaro, Uniqua Consulting GmbH, Rämistrasse 16, 8001 Zürich - Switzerland, E-mail: beat.fornaro@uniqua.ch, Tel: +41 79 102 65 66

South Africa Eve Anneck, Director, Sustainability Institute, Stellenbosch University, South Africa (eve@sustainabilityinstitute.net)

Detailed Course Faculty: Annexed herewith as Appendix 1

DAILY STRUCTURE

- Lectures take place between 08:30-10:30 and 11:00-13:00 unless otherwise indicated.
- Afternoons are generally devoted to self-study, readings and group work.

COURSE VENUE

Stellenbosch Institute for Advanced Studies (STIAS)

Wallenberg Research Centre

10 Marais Street

Stellenbosch

7600

Tel: +21-808-2650

Fax: +21-808-2184

<http://stias.ac.za/>



EXPECTED TRAINING OUTCOMES

The training is part of the onboarding process for the Analysts who are employees of the Sovereign Wealth Fund of Angola. At the end of the training, the Analysts are expected to submit publishable reports on key sector specific issues to be agreed with the analysts in liaison with the QGRL and the Training Faculty. Each Analyst will have priority in choosing which sector specific issues to address in his/her report. At the basic minimum, the Analysts should be well equipped to perform sectorial analysis and relate each sector's performance to the macroeconomic environment in a systems dynamic manner. The following capabilities could form the target for the Training Faculty:

1. Appreciation of global change complexities, interconnectedness and systems dynamics as the context for macroeconomic governance and sustainable investments of sovereign funds of countries.
2. Appreciation of the concepts of sustainable development for inter-temporal analyses of investment, including current risks and welfare implications for future generations.
3. An understanding of competing theoretical approaches to macro-economic development and policy formulation.
4. An ability to apply various analytical tools for assessing economy-wide and sectoral economic trends.
5. Ability to apply systems thinking and complexity approaches to macro-economic systems dynamics modelling to support decision-making.
6. Understand and measure the macroeconomic impact of each sector and the influence of macroeconomic forces and trends on sectoral conditions.
7. Elicit Key Performance Indicators (KPI) for each sector.
8. Perform SWOT¹ analysis for each sector.
9. Perform Risk Assessment of sector output (quantitative analysis).
10. Hone skills on Exploratory Data Analysis using MS Excel.
11. Be able to critically handle data collection with emphasis on missing data, outlier detection and sample selection bias.

¹ strengths, weaknesses, opportunities and threats



COURSE OUTLINE AND SCHEDULE

DAY	DATE	TOPIC	FACULTY
WEEK 1			
The Context for Macroeconomic Policy Analysis			
Monday	10-Nov	Course introduction and overview; establishing agenda for course	Mark Swilling; Jeremy Wakeford
Tuesday	11-Nov	Oil & Gas sector: trends & drivers; demand, supply and price dynamics; resource issues	Jeremy Wakeford
Wednesday	12-Nov	Introduction to complex systems and complexity theory	Rika Preiser
Thursday	13-Nov	Global change and sustainability in the context of macro policy management in Africa	Mark Swilling; Eve Anneck
Friday	14-Nov	Global change and sustainability in the context of macro policy management in Africa	Mark Swilling
WEEK 2			
Macroeconomic Development Perspectives and Analytical Tools			
Monday	17-Nov	Exploratory survey data analytical techniques	Le Roux Burrows
Tuesday	18-Nov	Economic trends and prospects for the South African economy - understanding economic indicators	Rudolf Gouws
		Time series data analytical techniques	Jeremy Wakeford
Wednesday	19-Nov	Monetary policy internationally since the crisis	Stan du Plessis
		Interaction of macroeconomic systems with material resource & energy flows and ecological infrastructure	Jeremy Wakeford
Thursday	20-Nov	A political economy approach to the Resource Curse: What is it, and how can it be reversed?	Patrick Bond
Friday	21-Nov	11:00 Reviewing the state of macroeconomics and macroeconomic policy in the light of the international financial crisis	Estian Calitz
		14:00 Urban development in an African context	Edgar Pieterse
WEEK 3			
Macroeconomic Policy Management			
Monday	24-Nov	Characteristics of EMEs and implications for macroeconomic policy	Estian Calitz
		Impact of the international financial crisis on developing countries	
Tuesday	25-Nov	Macroeconomic stability: inflation & business cycles	Estian Calitz
		Exchange rate systems and exchange rate volatility	
Wednesday	26-Nov	Coordination of monetary & fiscal policy	Estian Calitz
		Economic growth: nature, theories, determinants, policies	
Thursday	27-Nov	Unemployment: nature and policy options	Krige Siebrits
		Public debt management & fiscal consolidation: design and effects	
Friday	28-Nov	Inclusive growth: poverty, inequality and pro-poor policies	Estian Calitz
		The resource curse and policy implications (incl. resource taxes)	

WEEK 4		Economy-wide and Sectoral Analysis	
Monday	01-Dec	Macroeconomic analysis and model-based forecasting: lessons from experience	Ben Smit
Tuesday	02-Dec	Perspectives on public investment management; Economic diversification and industrial policy in Africa	Seeraj Mohamed
Wednesday	03-Dec	Economic diversification: Industrial policy and the links between agriculture and industry	Anthony Black
Thursday	04-Dec	Agriculture sector development	Nic Vink
Friday	05-Dec	VISIT TO DEVELOPMENT BANK OF SOUTHERN AFRICA	Mark Swilling; Kevin Urama
WEEK 5		Macro-Economic Systems Dynamics Modelling	
Monday	08-Dec	Macro-economic systems dynamics modelling with applications	Josephine Musango
Tuesday	09-Dec	Macro-economic systems dynamics modelling with applications	Josephine Musango
	14:00	Inclusive Growth indicators: How going beyond narrow GDP measures can trigger systemic change	Lorenzo Fioramonti
Wednesday	10-Dec	Macro-economic systems dynamics modelling with applications	Josephine Musango
Thursday	11-Dec	Macro-economic systems dynamics modelling with applications	Josephine Musango
Friday	12-Dec	Macro-economic systems dynamics modelling with applications	Josephine Musango
WEEK 6		Sectoral Analysis: Development Finance	
Monday	15-Dec	Development Finance Theory and Paradigm; Context of financial systems and development finance in Africa	Charles Adjasi & Meshach Aziakpono
	p.m.	Informal sector analysis	
Tuesday	16-Dec	Sectoral Issues in and specialised development finance: Banking/financial services; Venture capital and equity investment; Credit guarantee and loan schemes	Charles Adjasi & Meshach Aziakpono
	p.m.	Informal sector analysis	
Wednesday	17-Dec	Infrastructure financing & public private partnership	Charles Adjasi & Meshach Aziakpono
	p.m.	Informal sector analysis	
Thursday	18-Dec	Monitoring and evaluation of development finance interventions	Charles Adjasi & Meshach Aziakpono
	p.m.	Informal sector analysis	
Friday	19-Dec	Reflections, discussions and closure	Kevin Urama & Mark Swilling

COURSE DESIGN & FACULTY MEMBERS







Prof. Kevin Chika Urama
 Managing Director, Quantum
 Global Research Lab,
Course Director



Prof. Kevin Chika Urama holds a First Class Honors degree and a Master of Science in Agricultural Economics from the University of Nigeria, Nsukka, a Master of Philosophy degree with distinction, and a Ph.D. in Land Economy from the University of Cambridge, United Kingdom. A 2002-3 winner of the James Claydon Prize for the most outstanding PhD thesis in economics or related subjects while studying at St. Edmund's College, University of Cambridge, Prof. Urama was recently named the Technology Executive of the Year by the Africa Technology Awards in 2012, adding to many international prizes he has received for academic excellence and science policy leadership.

He is currently the Inaugural Managing Director of the Quantum Global Research Lab, an independent research facility established in Switzerland, dedicated to leading innovation and excellence in the delivery of bottom-up econometric models of African economies that are embedded in African realities as tools for inclusive economic development policy and sustainable investment decision making in African countries. He was most recently the Executive Director of the African Technology Policy Studies Network (ATPS) and also the inaugural President of the African Society for Ecological Economics (ASEE), a Senior Consultant on Sustainable Development and Green Growth for the African Development Bank (AfDB), and a Consultant for the preparation of the Comprehensive Climate Change Strategy of the African Union Commission (AUC). An Extra-Ordinary Professor in the School of Public Leadership, Stellenbosch University, South Africa; Professor Urama is also an Adjunct Professor at the Sir Walter Murdoch School of Public Policy and International Affairs, Murdoch University, Western Australia; and a Fellow of the African Academy of Sciences (AAS). He serves on several international and intergovernmental scientific panels and advisory boards including the Intergovernmental Panel for Climate Change (IPCC), the International Resource Panel (IRP), High-Level Panel on Global Assessment of Resources for Implementing the Strategic Plan for Biodiversity 2011-2020, the OECD Green Growth and Poverty Reduction Task Team, and the UNESCO Governing Board of the International Research and Training Centre for Science and Technology Strategy



	<p>(CISTRAT), Beijing, China. He is a member of the Editorial (Advisory) Boards of many international journals, including Science and Public Policy, Ecological Economics; Responsible Innovation, and Environmental Policy and Governance, African Journal of Science, Technology, Innovation and Development, and has over 100 publications in various media. The Lead author for the African Manifesto for Science, Technology and Innovation, Prof. Urama seeks to foster self-rule and democratic governance of science and innovation policy in Africa.</p>
<div data-bbox="209 694 553 1142" data-label="Image"> </div> <div data-bbox="185 1198 576 1319" data-label="Caption"> <p>Prof Mark Swilling (Course Leader, Stellenbosch University)</p> </div> <div data-bbox="296 1364 466 1400" data-label="Text"> <p>Course Host</p> </div>	<p>Distinguished Professor Mark Swilling is Programme Coordinator: Sustainable Development in the School of Public Leadership, University of Stellenbosch and Academic Director of the Sustainability Institute. He is also Project Leader of the Centre for the Transdisciplinary Study of Sustainability and Complexity (known as the TsamaHub). The TsamaHub is responsible for the delivery of a transdisciplinary doctoral programme. He is responsible for the design and implementation of a Master's Programme in Sustainable Development that gets delivered at the Sustainability Institute, located in the Lynedoch EcoVillage, Stellenbosch. Prior to his appointment to Stellenbosch University in 2002 Professor Swilling was an Executive Director of Spier Holdings (Pty) Ltd. 1999-2001; co-founder and Director of the Graduate School of Public and Development Management at the University of the Witwatersrand, 1995-1998. Professor Swilling obtained his Ph.D. from the University of Warwick in 1994 and has a BA and a BA (Honours) obtained through the Department of Political Studies at the University of the Witwatersrand where he was also a lecturer from 1982 - 1987. By 2013 he had published 54 chapters in books, 37 articles in refereed journals, 8 books and compiled 22 Technical Reports mainly for public sector institutions (on governance, economic development, urban development issues). He was elected as a Fellow into the international Ashoka network of social entrepreneurs in 1992, and serves on several Boards of for- and Non-Profit Organisations. In 2007 he was invited to be a member of the International Resource Panel, established by the United Nations Environment Programme to assess ways of making the global economy more sustainable. After his first two three-year terms on this Panel, his appointment</p>


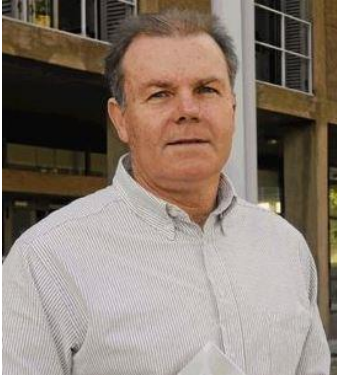
	<p>has since been renewed for another term. In 2010 he was awarded the Aspen Institute’s Faculty Pioneer Award for innovations in academic teaching.</p>
 <p>Dr. Fernando Barbi, Macroeconomist, Quantum Global Research Lab. Technical Course Coordinator, QGRL</p>	<p>Dr Fernando Barbi is a macroeconomist with extensive modelling experience with the Brazilian economy. Before joining QGRL he held the position of Head of Economic Modelling Division at the Ministry of Finance of Brazil. At QGRL he is dedicated to modelling African economies and to the establishment of a large scale macroeconomic database on African countries. Fernando has a PhD in Economics (2014) from Fundação Getulio Vargas (FGV) in São Paulo, Brazil. His research areas are Monetary Policy, DSGE (Dynamic Stochastic General Equilibrium) models and Bayesian Financial Econometrics. He lectured in FGV graduate programs and advised many theses, two of which won best thesis awards. He has extensive project management experience in the ITC sector.</p>
 <p>Dr Jeremy Wakeford (Technical Course Co- ordinator, Stellenbosch University)</p>	<p>Jeremy Wakeford is an Extraordinary Senior Lecturer in the School of Public Leadership at Stellenbosch University, and was formerly a Senior Lecturer in the School of Economics at the University of Cape Town, where he taught courses on econometrics, monetary policy and development economics. He holds Masters Degrees in Economics from the Universities of Cape Town and Cambridge (UK), and obtained his PhD in Sustainable Development from Stellenbosch University. His research interests focus on energy and sustainability transitions and the Green Economy. His publications include the recent book <i>Preparing for Peak Oil in South Africa</i>, several book chapters and journal articles, as well as numerous conference papers and research reports. He consults to international organisations, national government departments and private sector clients. He co-ordinates and teaches the module Globalisation, Governance and Civil Society that is offered as part of the Master’s in Sustainable Development at Stellenbosch University.</p>

 <p>Eve Annecke, Course Facilitator, Sustainability Institute</p>	<p>Eve Annecke is the founding director of the Sustainability Institute. She is co-founder of Lynedoch Development and the Lynedoch EcoVillage. She has worked for many years in organisational learning, with a special focus on process facilitation, dialogue and leadership. She has been an early childhood development worker and is a Montessori pre- and primary educationist. Her Masters in Management Learning through Lancaster University, UK, focussed on the relationship between sustainability and the practice of leadership. She is responsible for creating the SI's approach to learning, and her masters level teaching is in sustainability, complexity, leadership, environmental ethics and facilitation of just transitions.</p>
 <p>Prof Stan du Plessis, Dean of the Faculty of Economic and Management Sciences and Professor in the Department of Economics at Stellenbosch University</p>	<p>Stan du Plessis is Dean of the Faculty of Economic and Management Sciences and Professor in the Department of Economics at Stellenbosch University. He teaches macroeconomics, monetary economics and advanced econometrics, mainly to graduate students in Stellenbosch and at the University of Cape Town. His publications in South African and International academic journals include papers on monetary policy, business cycles, applied econometrics, law and economics and competition policy. He is also a regular author on economic issues for the financial press in South Africa. Stan is an editor of the South African Journal of Economics and Treasurer and Secretary of the African Econometric Society. Stan is also experienced with various aspects of competition and industrial policy in South Africa, where he has been involved as an expert witness and consultant in cases involving large mergers (such as the recent hostile takeover bid for Gold Fields by Harmony), allegations of anti-competitive conduct (such as the recent case involving Nationwide and SAA) and trade policy (such anti-dumping cases). His academic qualifications include an M.Phil (Economics) from the University of Cambridge and a PhD (Economics) from Stellenbosch University.</p>

 <p>Prof Estian Calitz, Department of Economics at Stellenbosch University.</p>	<p>Estian Calitz is a Professor in the Department of Economics at Stellenbosch University. He is an expert on macro-economic analytical frameworks and approaches and teaches a masters course called Development Macro-Economics. Qualifications: BCom, University of Stellenbosch; DCom (Economics), University of Stellenbosch. His career history includes the following appointments: Assistant Economic Researcher, South African Reserve Bank, Pretoria; Lecturer, University of Pretoria; Lecturer / Senior Lecturer, Rand Afrikaans University; Various Positions (from Deputy Director-Chief Director) in Office of the Economic Advisor to the Prime Minister and Central Economic Advisory Service, Pretoria; Deputy Director-General: Financial Planning, Department of Finance, Pretoria; Director-General: Finance, Department of Finance, Pretoria; Professor of Economics, University of South Africa, Pretoria; Dean: Economics and Management Science, University of Stellenbosch; Executive Director: Finance, University of Stellenbosch; Professor of Economics, University of Stellenbosch.</p>
 <p>Prof Ben Smit, Bureau for Economic Research (BER) and Professor of Economics at the University of Stellenbosch</p>	<p>Ben Smit is currently Director of the Bureau for Economic Research (BER) and Professor of Economics at the University of Stellenbosch. He was appointed Director of the BER in 1998. He continues to lecture on a post-graduate level in the Department of Economics, which he joined in 1975. From 1981 he interrupted his lecturing career, becoming a research economist at the BER, a position he held until 1984. During 1985/86 he spent a sabbatical year at the University of Pennsylvania and Wharton Econometrics in the USA. During 1984 Prof Smit returned to his lecturing career on a full-time basis and was promoted to Professor in 1991. During this time, he acted as a consultant to the BER, until 1997, before becoming Director. He acted as Chairperson, Department of Economics, University of Stellenbosch over the period 1992 to 1993, 1995 and 1997. Consulting positions held by Prof Smit, include: Department of Finance (1992 - to date); Department of Economics, University of Western Cape (1992 - 1994); Development Bank of Southern Africa (1994 - 1995); Committee of Inquiry into Mining Taxation (1987); The Macro-Economic Strategy for Growth, Employment and Redistribution (GEAR) (1996); the World Bank (1996 - 1998) and the Harvard Group (2006-2008). In 2010 he was appointed as a non-executive director on the Board of the South African Reserve Bank.</p>

 <p>Prof Charles Adjasi Associate Professor of Development Finance at the University of Stellenbosch Business School, Cape Town, South Africa</p>	<p>Charles Adjasi is Associate Professor of Development Finance at the University of Stellenbosch Business School, Cape Town, South Africa; network member African Economic Research Consortium Nairobi Kenya; network member Global Trade Analysis Project GTAP Network, Purdue University, West Lafayette, IN USA. He was previously a Senior Lecturer at the Department of Finance, University of Ghana Business School (UGBS) and also served as one time Head of Department. He has consulted for various institutions, the World Bank, Global Trade Analysis Project; Africa Centre for Economic Transformation, Frederich Stiftung Foundation Ghana, Investment Climate Facility for Africa, Trades Union Congress of Ghana, Ministry of Health Ghana. He holds a PhD from Stellenbosch University, an MPhil in Economics and a BA in Economics and Political Science both from the University of Ghana. His research focus is on corporate governance, financial markets and development, firm productivity, and household welfare in developing countries and has published widely in internationally reputable journals. Charles serves as an Associate Editor on the African Finance Journal, African Journal of Economic and Management Studies.</p>
 <p>Prof Nick Vink Professor at Department of Agriculture, Stellenbosch University</p>	<p>Prof Nick Vink joined the University of Stellenbosch as professor in agricultural economics in 1996 after 11 years at the Development Bank of Southern Africa. He is an agricultural economist specialising in agricultural and agribusiness development policy, land reform and empowerment, agricultural marketing, tax and international trade issues. Prof Vink has been involved in a range of official government Commissions and Committees of investigation, inter alia in the deregulation of agricultural marketing and the provision of rural financial services. He has consulted widely to national departments (Water Affairs and Forestry, Agriculture, Land Affairs, Labour, Trade and Industry, Cooperative Governance and the Treasury); provincial departments and internationally (among others for the World Bank, IFPRI, FAO, USAID, DFID, etc.). He is currently (2010-2012) the President of the African Association of Agricultural Economics, he was editor of Development Southern Africa (1988-1996) and of Agrekon (2002-2010). He has published widely, both nationally and internationally, with more than 100 academic publications.</p>

 <p>Prof Meshach Aziakpono Associate Professor at the University of Stellenbosch Business School, Cape Town, South Africa</p>	<p>Meshach Aziakpono (PhD) is a Professor of Development Finance and until April 2013 was the Head of Development Finance Programmes at the University of Stellenbosch Business School (USB). Before joining the USB he was Associate Professor of Economics and the Coordinator of Master’s Programme in Financial Markets in the Department of Economics and Economic History at Rhodes University, South Africa. Meshach Aziakpono has worked as a consultant among others for the OECD Centre and African Economic Research Consortium (AERC). In 2009 he was a visiting scholar to the International Monetary Fund and in 2012 a visiting scholar to the INSEAD, in Singapore. He obtained his PhD degree in Economics from the University of the Free State, Bloemfontein in South Africa. His PhD Thesis won the Founders’ Medal for the best PhD dissertation in Economics in South Africa. He has vast experience in teaching and supervising at undergraduate and postgraduate levels. He is a member of several international and local professional Associations, including the Academy of Economics and Finance (USA).</p>
 <p>Dr Josephine Musango Senior Lecturer in the School of Public Leadership, Stellenbosch University.</p>	<p>Josephine Musango is a Senior Lecturer in the School of Public Leadership, Stellenbosch University. She is Deputy Coordinator of the Sustainable Development Programme. She has a PhD (Sustainable Development, 2012) from Stellenbosch University; an MSc (Agricultural Economics, 2005) from Stellenbosch University, and a BSc (Hons) (Agribusiness Management, 2002) from Egerton University, Kenya. She is a member of the System Dynamics Society; South Africa System Dynamics Chapter. Dr Musango previously worked for Gauteng City-Region Observatory as Senior Researcher; Department of Energy as Deputy-Director; and Council for Scientific and Industrial Research (CSIR) as Resource Economist. Her research interest is undertaking transdisciplinary research focused on integrating economics into sustainable resource management and solving complex social and policy related problems through application of economic analysis and system dynamics modelling. Her particular interests are on social, resource management and policy challenges including green economy, energy, water, land use, transport and waste management at an urban and country scale. She also has expertise in other modelling approaches including material flow analysis, agent based modelling, discrete event modelling, Bayesian networks and econometrics.</p>

 <p>Dr Rika Preiser Centre for Studies in Complexity at the Stellenbosch University</p>	<p>Rika Preiser is a researcher at the Centre for Studies in Complexity at the Stellenbosch University. She holds Masters degrees in Journalism (2004) and Social Anthropology (2008), both obtained at Stellenbosch University. In 2012 she completed her PhD in Philosophy entitled “The Problem of Complexity: Rediscovering the role of Critique”. Her current research is focused on the philosophical and critical implications of complexity theory and systems thinking. The practical implications of applying a complexity approach to research and knowledge generation (epistemology) is an important field of collaboration with researchers from a variety of disciplines. She is co-editor with Paul Cilliers of Complexity, Difference and Identity (Springer, 2010).</p>
 <p>Prof Anthony Black Professor of Economics, University of Cape Town</p>	<p>Anthony Black is professor in the School of Economics at the University of Cape Town. He is a development economist whose main fields of expertise are industrial development, foreign investment and trade. Current research includes a major project on employment intensive growth in South Africa. He has been a leading advisor to government on South Africa’s programme to develop its automotive industry and has also acted as a consultant to the Government of Mozambique as well as to organisations such as UNIDO and UNCTAD. International collaborations have included involvement in projects based at the London Business School, the World Institute of Development Economics Research (WIDER) and the International Motor Vehicle Program at MIT. Black has taught graduate courses on African economic development for several years and has also taught a course entitled ‘Economic Challenges for African Development’ at the London School of Economics-University of Cape Town July School since its inception in 2013. He was director of the School of Economics from 2003-2005 and a non-executive director of the Cape Town and Western Cape tourism, trade and investment promotion agency (WESGRO) from 2010-2014.</p>



Prof Lorenzo Fioramonti
Associate Professor at the
University of Pretoria, South
Africa

Lorenzo Fioramonti is Associate Professor at the University of Pretoria (South Africa), where he directs the Centre for the Study of Governance Innovation. He is also Senior Fellow at the Centre for Social Investment of the University of Heidelberg and at the Hertie School of Governance (Germany) and Associate Fellow at the United Nations University. Prof Fioramonti is the first and only Jean Monnet Chair in Africa, a prestigious recognition awarded by the European Commission to distinguished academics in the field of regional integration studies. In 2012, Prof Fioramonti received the UP Exceptional Young Researcher Award. His most recent books are *How Numbers Rule the World: The Use and Abuse of Statistics in Global Politics* (Zed Books 2014) and *Gross Domestic Problem: The Politics Behind the World’s Most Powerful Number* (Zed Books 2013), which deal with the political interests behind economic statistics and market governance. His research interests range from alternative economic paradigms to the governance of the commons, global political innovations and new forms of supranational regionalism. Prof Fioramonti’s opinion pieces have been published, among others, by *The International Herald Tribune*, *The Guardian*, *Business Day*, *Die Presse*, *Das Parlament*, and *the Mail&Guardian*.



Prof Patrick Bond
Professor in the School of
Population and Development
Studies at the University of
Kwazulu-Natal

Patrick Bond is professor in the School of Population and Development Studies at the University of Kwazulu-Natal. He was educated at Swarthmore College’s Department of Economics, the Wharton School of Finance at the University of Pennsylvania and the Johns Hopkins University Department of Geography and Environmental Engineering where he received his PhD in 1993. He is a political economist with longstanding research interests and NGO work in urban communities and with global justice movements in several countries. He teaches political economy and eco-social policy, directs the Centre for Civil Society and is involved in research on economic justice, geopolitics, climate, energy and water. In service to the new South African government, Patrick authored/edited more than a dozen policy papers from 1994-2002, including the Reconstruction and Development Programme and the RDP White Paper, and he taught at the University of the Witwatersrand Graduate School of Public and Development Management from 1997-2004.



Seeraj Mohamed

Senior Lecturer in the School of Economic and Business Sciences at the University of the Witwatersrand

Seeraj Mohamed is a Senior Lecturer in the School of Economic and Business Sciences at the University of the Witwatersrand, where he is also Director of a unit called Corporate Strategy and Industrial Development. He is an academic economist and writer with more than 20 years' experience working on economic, industrial and finance development issues. He has been active in research and formulation of economic policies for a democratic South Africa since democracy in 1994. He is also a member of the executive committee of the Global Labour University (GLU) at Wits University and teaches a core course in the GLU Masters programme. Seeraj was appointed Special Advisor to the South African Minister of Trade and Industry in 2010. He also advises the South African Labour Movement on economic policy issues and was a member of the Economist Advisory Panel of Cosatu, the country's largest trade union federation. He was a member of the Board of Directors of the Development Fund of the Development Bank of Southern Africa. He is involved in a number of progressive international networks working on economic development and finance. He wrote the background paper for UN ECA on industrial policy that informed UNECA's 2014 report on industrial policy as a policy priority.



Krieger Siebrits

Senior Lecturer, Economics Department at Stellenbosch University

Krieger Siebrits undertook all his studies in Economics at the University of Stellenbosch. He started his career in 1992 as a policy advisor in the National Treasury of South Africa in Pretoria. From 1996 to 2007 he worked at the University of South Africa (Unisa), initially as a researcher in the Bureau for Market Research and from 1997 onwards as a senior lecturer in the Department of Economics. He returned to the University of Stellenbosch in 2008 as a senior lecturer in the Department of Economics, where he teaches Public Economics, Institutional Economics and Development Economics. His research has focused on aspects of fiscal policymaking in South Africa, but he has also published on inflation in South Africa and on economic aspects of sport.



Prof Edgar Pieterse

South African Research Chair
in Urban Policy,
University of Cape Town

Professor Edgar Pieterse is holder of the DST/NRF South African Research Chair in Urban Policy. He directs the African Centre for Cities and is Professor in the School of Architecture, Planning and Geomatics, both at the University of Cape Town. The ACC is fast emerging as the preeminent urban research centre on the African continent. He previously served as Special Advisor to the Premier of the Western Cape Provincial Government in South Africa and directed a number of urban policy think tanks before his stint in government. Edgar holds a PhD from London School of Economics, an MA in Development Studies from the Institute of Social Studies (The Hague, The Netherlands) and BA-Honours from the University of the Western Cape.

His most recent book is: *City Futures: Confronting the Crisis of Urban Development* (Zed Books, 2008). He has also edited or co-edited the following recent works: *African Cities Reader II: Mobility & Fixtures* (Chimurenga, 2011); *Counter-Currents: Experiments in Sustainability in the Cape Town region* (Jacana, 2010); *African Cities Reader: Pan-African Practices* (Chimurenga, 2010); *Consolidating Developmental Local Government* (UCT Press, 2008) and a notable earlier book: *Voices of the Transition: The Politics, Poetics and Practices of Development in South Africa* (Heinemann Publishers, 2004). He is also founding co-editor of a new urban magazine—*CityScapes*—focussed on urbanism in the global South.



Prof Rudolf Gouws
Honorary Professor of
Economics at Stellenbosch
University

Rudolf Gouws is an honorary professor of Economics at the University of Stellenbosch. He obtained a Master's degree in Economics from the University of Stellenbosch in 1971. He became Chief Economist of the Nedbank Group in 1979. From 1986 to June of 2009 he was Chief Economist of Rand Merchant Bank. He retired at the end of 2012, but remains an economic consultant to RMB and a member of its board. He chaired the Economic Policy Committee of BSA (Business South Africa) from 1996 to 2003, and served in Nedlac.



Le Roux Burrows
Lecturer, Department of
Economics, Stellenbosch
University

Le Roux Burrows holds a Masters degree in Economics (cum laude) from the Free State University, Bloemfontein, South Africa. His PhD study focuses on tourism impact analysis using general economic modelling techniques. He is currently a lecturer in Economics at the Stellenbosch University with teaching focus econometrics and quantitative techniques. He previously held positions as researcher in economics at SANLAM and lecturer in economics at the Free State University.

He served for six years as member of the Council of the Stellenbosch University and plays an active role in the institutional management of Stellenbosch University. He also serves as secretary and member of the Council of the Economic Society of South Africa. His research culminated in presenting papers at various national and international conferences as well as publishing various working papers.

Key areas of expertise: Economic policy impact modelling and analysis using partial modelling techniques (econometric techniques); General data analysis using descriptive and simple non-modelling techniques in Excel; Tourism impact analysis; Computable General Economic modelling.

4. Proposed Schedule for the Training Program

Dates	Activity	Comments
09 November 2014	Analysts + UNIQUA + QGRL Representative (11 persons) to arrive in Cape Town	Flight bookings to be procured by UNIQUA. Ground transport logistics to be arranged by SU
10 November 2014	Opening sessions of the training and handing introduction of Analysts to Stellenbosch University Training Theme: Sector Analyses and Macro-economic systems dynamics	Beat + Fernando to attend Detailed Course Curriculum to be provided in consultation with SU, QGRL and UNIQUA
01 - 07 December 2014	Field visit to the development Bank of Southern Africa, the Reserve Bank of SA and NEPAD (TBA). A delegate from UNIQUA and/or QGRL to attend	UNIQUA to arrange for flights to Cape Town for Analysts and QGRL delegates directly The added value would be significant – practical experiences in a comparator country and building knowledge networks for the Analysts. We plan to do the same in Nigeria but with little additional costs as everything will be done at Abuja. Beat, Fernando and Kevin to attend
15 - 19 December 2014	Closing Session of the training at SU	Beat + Kevin to attend
20 December 2014 - 04 January 2014	Christmas break	Analyses go back to Angola
05 Jan – 30 January 2014	Country specific analyses – Analysts working as Investigative Economists - collecting data on assigned topics and sectors, including the informal sector, PPPs, Fiscal debt, public expenditure management, foreign exchange policy, patent law, international Trade, inclusive growth, and other topics to be defined jointly with the Client and in consultation with Training Faculty.	This period will be critical in getting the Analysts to collect the required data for their reports at the end to the exercise. The topics will be selected to be of interest to the general modeling of the Angolan Economy which QGRL is undertaking. Fernando to be there 04 – 10

		January 2014 to guide and support the process. Flights and accommodation to be procured by UNIQUA
01 Feb 2014	Analysts + UNIQUA + QGRL Representatives – Kevin (10 persons) to arrive in Abuja, Nigeria	Flight bookings to be procured by UNIQUA a.s.a.p. Ground transport logistics to be arranged by University of Abuja or the Central Bank of Nigeria (TBA)?
02 Feb 2015	Opening session of the training in Nigeria and handing introduction of Analysts to the University of Abuja or the CBN (TBA) – Training team: Macro-economic policy analyses, and comparative studies of resource rich economies in Africa (Angola, Nigeria, South Africa, Mozambique, ...)	Beat + Kevin to attend Detailed Course Curriculum to be provided in consultation with University of Abuja, CBN, QGRL and UNIQUA
03 – 06 Feb 2015	Training on Transformational Leadership	To be delivered by leading experts in the field, and former Ministers in Nigeria – giving practical experiences and leadership principles in an African context.
07 Feb – 15 March 2014	Training on Macro-economic policy analyses and comparative studies of resource rich countries in Africa	To be provided by faculty members from the University of Abuja, the Central Bank of Nigeria, University of Nigeria, and QGRL. The data collected by the Analysts through their investigative economics work and also data collected by QGRL will be used in the simple modelling exercises to highlight investment needs of Angola, drawing on experiences of other comparator countries in Africa and elsewhere. Kevin and Fernando to be there for the beginning.
16 March – 15 April 2014	Training Wrap-up sessions at Zug, Switzerland	Lead Faculty members (one from Stellenbosch and one from Nigeria to join the QGRL and UNIQUA in assisting the



		<p>Analysts to turn their work into separate reports based on the Investigative economics work done by the Analysts and also data collected by the QGRL up to that period.</p>
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