



Workshop Agenda

Strengthening research capacities for the transition to low-carbon and climate-resilient energy technologies in Africa: a platform for academic-private sector collaboration

**Hotel Villa Portofino, Conference Room 4th Floor,
Kigali, Rwanda, 21-22 July 2016**



Building Bi-regional Partnerships for Global Challenges



CAAST-Net Plus is funded by the European Union's Seventh Framework Programme for Research and Technological Development (FP7/2007-2013) under grant agreement n° 311806. This document reflects only the author's views and the European Union cannot be held liable for any use that may be made of the information contained herein.

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Organisation Name: MINEDUC on behalf of Work Package 2

Background

As a central output of CAAST-Net Plus, the consortium is committed to designing and setting up a tangible project legacy intended to strengthen EU-Africa research collaboration relating to the broad topic of climate change. A two-day workshop held in Bergen, Norway in 2015 aimed at finalising the design of this legacy, or platform, building upon the analytical work and consultations undertaken earlier in the project.

The present Kigali event is the first of these platforms: a sector-specific capacity-building workshop of two days' duration, aimed at developing research ideas, leading to draft project proposals, and identifying options for accessing research funding. Our intension is to pilot this workshop format, which will be adopted and continued by external partners beyond the timespan of CAAST-Net Plus (ending in December 2016), i.e. to test whether the platform, as conceived, is of practical value.

This first workshop will provide targeted capacity-building for early-career African researchers with a professional interest in topics related to the energy sector, which contributes to 35% of the global greenhouse gas emissions and is often highly exposed to climate change risks.

Workshop objectives

This workshop brings together selected experts in the area of climate change (with a particular focus on energy) research and research funding, from academia, the public and private sectors, to provide guidance and feedback to early-career academic researchers based in Africa. With a focus on research for energy sector business development, we have invited researchers that are already pursuing, or interested in, research that explores the interaction between, and relative influence of, state, market and donors in the transition towards the use of sustainable energy technologies in developing countries.

Expected outcomes

- Early career African academics pursue research that better reflects the needs of African business and industry, and policy-making in support of a transition towards low-carbon and climate resilient energy sectors.
- African researchers are in a better position to secure funding through private sector and other sources, including the European Commission's Horizon 2020 funding mechanism.

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Participants (in alphabetical order)

Researchers

Anthony Onoja (University of Port Harcourt)
Collence Takaingehano Chisita (Harare Polytechnic)
Diran Soumonni (Wits Business School)
Edmund Okoroigwe (University of Cape Town)
Eileen Phoebe Lara (Makerere University)
Engida Esayas Dube (Addis Ababa University)
Geoffrey Gasore (University of Rwanda)
Holle Linnea Wlokas (University of Cape Town)
Kim Coetzee (University of Cape Town)
Kizito Masaba (Carnegie Mellon University, Rwanda)

Mike Kuria (Daystar University/ Inter-University Council for East Africa)
Muhammed Sanni Morufu (National Centre for Technology Management)
Musiyani Gavin Chew (University of Cape Town)
Odax Ugirimbabazi (University of Rwanda)
Oketcho Chombo (College of Agriculture And Environmental Sciences)
Paul Nsonga (Carnegie Mellon University, Rwanda)
Richard Sseruwagi (Makerere University)
Seid Hassen Mohamed (Ethiopian Development Research Institute)
Victor Kagimu (Carnegie Mellon University, Rwanda)

Speakers (see biographies below)

Alex Mulisa (Rwanda's Green Fund, FONERWA)
Andy Cherry (The Association of Commonwealth Universities)
Ari Mathiesen (University of Agder)
Arne Tostensen (Research Council of Norway - RCN)
Aschalew Tigabu (African Centre for Technology Studies - ACTS)
Berhanu Abegaz (African Academy of Sciences - AAS)
Cecilie Larsen (UNEP DTU Partnership - UDP)

George Essegbey (Science and Technology Policy Research Institute, Ghana)
James Haselip (UNEP DTU Partnership - UDP)
Marie-Christine Gasingirwa (Ministry of Education, Rwanda)
Nelson Ijumba (University of Rwanda)
Pontien Ndabaneze (Inter-University Council for East Africa)
Saidi Kibeya (East African Science and Technology Commission - EASTECO)
Tony Mitchell (Independent consultant)

Host

Rwandan Ministry of Education - MINEDUC

Organisers

Mike Hughes, Jean Damascene, Julius Nkusi, Ndokoye Pancras, Vianney Rugamba, Emmanuel Habimana and Mutezigaju Flora (Rwandan Ministry of Education - MINEDUC)

Co-chairs

James Haselip (UNEP DTU Partnership - UDP) and Berhanu Abegaz (African Academy of Sciences)



THURSDAY 21 JULY 2016

Time	Activity	Speakers
09:00 - 09:15	Welcome <i>Objective and expected outcomes of workshop</i> <i>Larger picture: role and importance of the workshop platform</i> <i>Introducing the programme of the day</i>	Arne Tostensen Senior Researcher Research Council of Norway Co-leader for the CN+ work package on Climate Change
09:15 - 09:30	Opening <i>Official opening of the workshop</i>	Marie-Christine Gasingirwa Director General Science, Technology and Research Ministry of Education, Republic of Rwanda
09:30 - 10:00	Presentation <i>Identifying current research/knowledge priorities and gaps/needs related to the energy sector. AAS' experience with linkages between academia and private sector. Related to the CIRCLE Programme.</i> (15min. presentation + 15min. Q&A)	Berhanu Abegaz Executive Director African Academy of Sciences (AAS)
10:00 - 10:30	Presentation <i>Identifying current research/knowledge priorities and gaps/needs related to the energy sector. ACTS's experience with linkages between academia and private sector. Related to the AfricaLics programme</i> (15min. presentation + 15min. Q&A)	Aschalew Tigabu Research Fellow, Climate Resilient Economies and Science Technology & Innovation Policy Institute African Centre for Technology Studies (ACTS)
10:30 - 11:00	Presentation <i>What can research do for business and vice versa?</i> <i>How is IUCEA working with this and what is the current trend?</i> (15min. presentation + 15min. Q&A)	Pontien Ndabaneze Deputy Executive Secretary Inter-University Council for East Africa (IUCEA)
11:00 - 11:15	Coffee/tea break	
11:15 - 11:45	Presentation <i>Identifying current research/knowledge priorities and gaps/needs related to low-carbon and climate resilient the energy sector.</i> (15min. presentation + 15min. Q&A)	Nelson Ijumba Deputy Vice-Chancellor African Centre of Excellence on Energy, Rwanda

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11:45 - 12:15	<p>Presentation <i>Identifying current research/knowledge priorities and gaps/needs related to the energy sector based on current policy priorities.</i> (15min. presentation + 15min. Q&A)</p>	<p>Saidi Kibeya Deputy Executive Secretary East African Science and Technology Commission (EASTECO), Rwanda East African Community</p>
12:15 - 12:30	<p>Midway wrap-up <i>What have we heard?</i> <i>Introducing the afternoon programme: 2 cases framing research gaps followed by group-based discussions with feedback from colleagues and speakers.</i></p>	Workshop co-chairs
12:30 - 13:30	Lunch	
13:30 - 14:30	<p>Case presentations <i>Research to understand and inform energy policies and investment decisions: the transition to cleaner energy systems.</i></p> <p><i>Climate resilience of green energy systems: mitigation and adaptation co-benefits.</i></p>	<p>James Haselip Senior Researcher UNEP DTU Partnership, Denmark</p> <p>Cecilie Larsen Research Assistant UNEP DTU Partnership, Denmark</p>
14:30 - 14:45	Coffee/tea break	
14:45 - 16:30	<p>Group-based session <i>The early-career researchers can seek advice and receive guidance from the speakers and each other on specific research ideas/proposals. The researchers will be placed in smaller groups and speakers will be circulating.</i></p>	
16:30 - 17:00	<p>Wrap-up <i>Summing up discussions from the groups</i></p>	Workshop co-chairs
18:30 -	Dinner at the Hotel Villa Portofino	

FRIDAY 22 JULY 2016

Time	Activity	Speakers
09:00 - 09:20	Welcome <i>Introducing the programme for the day</i> <i>Status and prospects for Africa-EU collaborations on STI</i>	Andy Cherry The Association of Commonwealth Universities Project Manager for the CAAST Net Plus Consortium
09:20 - 10:00	Presentation <i>How to access relevant funding sources in practice?</i> <i>Presenting Horizon2020</i> (20min. presentation + 20min. Q&A)	George Essegbey Director Science and Technology Policy Research Institute (CSIR-STEPRI), Ghana Co-leader of CN+ work package 5
10:00 - 10:40	Presentation <i>How to access relevant funding sources, in practice?</i> <i>The case of FONERWA</i> (20min. presentation + 20min. Q&A)	Alex Mulisa Coordinator FONERWA, Rwanda
10:40 - 11:00	Coffee/tea break	
11:00 - 11:40	Presentation <i>Public-private co-funding mechanisms as a source of inspiration for researchers to access funding. The case of the BASE Project.</i> (20min. presentation + 20min. Q&A)	Ari Mathiesen University of Agder and coordinator of the BASE Project, Norway
11:40 - 12:20	Presentations <i>Public-private co-funding mechanisms as a source of inspiration for researchers to access funding. The case of the Knowledge Transfer Partnership.</i> (20min. presentation + 20min. Q&A)	Tony Mitchell Independent consultant/Knowledge Transfer Partnership
12:20 - 12:30	Midway wrap-up <i>What have we heard?</i>	Workshop co-chairs
12:30 - 13:30	Lunch	

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13:30 - 14:45	Group-based session <i>'Market place' set-up where early-career researchers can circulate, network and seek advice from the speakers on funding opportunities and contacts. This is also an opportunity for the speakers to promote their activities.</i>	
14:45 - 15:00	Coffee/tea break	
15:00 - 16:00	Group-based session (continued) <i>'Market place' set-up where early-career researchers can circulate, network and seek advice from the speakers on funding opportunities and contacts. This is also an opportunity for the speakers to promote their activities.</i>	
16:00 - 16:30	Wrap-up	Workshop co-chairs

SATURDAY 23 JULY 2016

Field trip to the Rwamagana Solar Power Station: an 8.5MW grid-connected PV array, built in 2015. The station is located on land owned by the Agahozo Shalom Youth Village, in Rwamagana District, approximately 60 km east of Kigali.

Our transport will leave from the hotel at 08.00 and we expect to return around noon.



SPEAKER BIOGRAPHIES

Alex Mulisa is the team coordinator of Rwanda's Green Fund, FONERWA.

Andy Cherry is currently a senior science officer at the Association of Commonwealth Universities in London, UK where he has worked for nine years, initially as manager of the Africa Unit. Cherry holds a PhD from Imperial College London in agricultural entomology and biological control and spent more than 15 years as an applied entomopathologist providing technical expertise to agricultural and horticultural pest management projects in Asia, Latin America and Africa, including a 7 year secondment to the International Institute of Tropical Agriculture in Benin where, among other roles, he managed a unit for the production of pathogenic fungus for Sahelian locust control. At the ACU Cherry is the coordinator of the CAAST-Net Plus project and participates in several other EU funded projects in support of Africa-Europe cooperation in scientific and technological research and innovation.

Ari Mathiesen is a fellow at the University of Agder in Norway and the coordinator of the BASE project.

Arne Tostensen is a senior researcher at the Chr. Michelsen Institute in Bergen, Norway, currently on secondment to the Research Council of Norway for the purpose of CAAST-Net Plus. He holds a PhD in sociology and has more than 35 years of experience in research and consultancy work, principally in Eastern and Southern Africa. In the context of CAAST-Net Plus he is the co-leader of Work Package 2 on climate change. He is particularly interested in the nexus between research and policy-making, and the uptake of research findings for application in the interest of poverty reduction and sustainable development.

Aschalew Tigabu is a Research Fellow within the AfricaLics Secretariat and Climate Resilient Economies Programme of the African Centre for Technology Studies (ACTS). He holds a PhD in Economics (of sustainable innovation) (2014) from the VU University Amsterdam and a Master's Degree (2009) from Cornell University. Tigabu has more than five years of research and professional experience in the areas of energy access, rural development, innovation studies, sustainability transitions and economic and social development.

Berhanu Abegaz is the Executive Director of the African Academy of Sciences (AAS). With a background in chemistry, he was awarded a PhD in 1973, and has since contributed with significant research to the academic society with more than 170 scientific papers published and has supervised numerous PhD and postdoctoral students. Before Abegaz was appointed Executive Director at AAS in 2011 he was a professor in chemistry at the University of Botswana for 17 years. Moreover, Abegaz has participated in several research networks, such as Network for Analytical and Biological Services for Africa (NABSA).

Cecilie Larsen has worked at UNEP DTU Partnership (UDP) since 2014, engaged primarily in cleaner energy and climate resilience related activities. She has been involved in the UNEP Emissions Gap Report for the last three years. With a background in business and development studies, her analytical work



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focuses on private sector engagement in climate change mitigation and adaptation. Before joining UDP, Larsen worked for the Senegalese NGO, ENDA, where she was engaged in rural electrification and solar mini-grid solutions. In connection with CAAST-Net Plus she is a co-leader of Work Package 2 on climate change and is one of the lead organisers of this workshop.

George Essegbey is the Chief Research Scientist and Director of the Science and technology Policy Research Institute of Ghana (CSIR-STEPRI). He holds a PhD in development studies from University of Cape Coast, and has a special interest in international political affairs alongside scientific research development and capacity building. In the context of CAAST-Net Plus, he is the co-leader of Work Package 5 concerned with strengthening Africa-Europe research cooperation partnerships, and he is in this relation particularly knowledgeable of the European Commission's Horizon 2020 funding scheme.

James Haselip has worked at the UNEP DTU Partnership since 2010, within the Cleaner Energy Development group. His analytical work focuses on the design and implementation of enabling frameworks for climate change mitigation technologies, using multi-criteria, economic baselines and outcome mapping methodologies. He has also been involved in two FP7 projects: the African Climate portal that promoted the uptake of climate change research in policy making in Africa, and CAAST Net+ that aims to inform the Africa-EU climate change policy dialogue, focusing on the role of research, science and technology.

Marie-Christine Gasingirwa is the Director General of the Science, Technology and Research Department under the Ministry of Education of Rwanda.

Nelson Ijumba is the Deputy Vice-Chancellor of Academic Affairs and Research at the University of Rwanda. Before being appointed to this position, he was the Deputy Vice-Chancellor of Research at the University of KwaZulu-Natal and a Professor of Electrical Engineering. He holds a PhD in Electrical Engineering from the University of Strathclyde. Ijumba has through his more than 25 years long scientific career served on various positions in higher education in Kenya, Tanzania and South Africa.

Pontien Ndabaneze is the Deputy Executive Secretary of the Inter-University Council for East Africa (IUCEA). In 1983 he was awarded a PhD in botany from University of Liege, Belgium, and has since had a career in higher education, mainly based in East Africa. His core interest and academic knowledge lies within biology, agronomic research and botany.

Saidi Kibeya is presently Deputy Executive Secretary of the East African Science and Technology Commission (EASTECO), in charge of Program Development. He holds a Doctorate Degree in Electronics from the '*Universite Montpellier II*', in France (1992) and an Electrical Engineering Degree from the '*Universite Catholique de Louvain*', Louvain-La-Neuve, in Belgium (1985). His area of specialization is microwaves and telecommunication. For almost 15 years, he was a full-time Professor. Before joining EASTECO, Kibeya was the Head of the Bureau of Strategic and Development Studies, Office of the President of the Republic, in Burundi, with the tasks of policy analysis and strategic choices proposals for the Burundi Government.

Tony Mitchell is an experienced international knowledge transfer consultant who has advised and supported Government Agencies in initiating programmes to encourage collaboration between the private sector and Universities and Research Institutes. He advises companies on the implementation of the new



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knowledge required to achieve strategic innovations and mentors high caliber graduates in business leadership. During the last 7 years Tony has worked mainly in Africa. Mitchell's career includes 15 years as an advisor on the UK's flagship Knowledge Transfer Partnership (KTP) programme. He is now a KTP Assessor responsible for evaluation of completed UK partnerships. His background is in civil engineering and is a fellow of the Institution of Civil Engineers.

