



FIRST AFRICA FORUM ON SCIENCE, TECHNOLOGY AND INNOVATION | FOR YOUTH EMPLOYMENT, HUMAN CAPITAL DEVELOPMENT, AND INCLUSIVE GROWTH

| NAIROBI, KENYA | APRIL 1-3, 2012

Day 1: STI Forum -April 1st Higher Education & Research and Development

9:00-9:30 *Welcome remarks*

Facilitator: Prof. Crispus Kiamba, Permanent Secretary, Ministry of Higher, Education, Science and Technology, Kenya, and Chair of Organizing Committee of the Africa STI Forum

- **Jean-Pierre Ezin**, Commissioner for Human Resources Science and Technology of the African Union
- **Gretchen Kalonji**, Assistant Director-General for Natural Sciences, UNESCO
- **Kamal ElKhesheh**, Vice President, African Development Bank (AfDB)
- **Aida Opoku-Mensah**, Director ICT and Science and Technology Division, UNECA
- **Hon. Margaret J. Kamar**, Minister of Higher Education, Science and Technology, Kenya

9:30 – 10:15 *Setting the stage*

Outcomes of ADEA's 2012 Triennial, scope of the forum, how can STI contribute to inclusive growth, create wealth and reduce poverty in Africa? How can science help to reach the poor and enhance the quality of life through food security, clean water, affordable health care, energy, awareness in mitigation and adaptation strategies to address climate change, connectivity/e-science?

- **Dzingai Mutumbuka**, Chair, Association for the Development of Education in Africa (ADEA)
- **Sara Farley**, Chief Operating Officer, Global Knowledge Initiative

General Rapporteurs for the Forum :

Grand Rapporteur: **Lamine Ndiaye**, President of African Academy of Sciences

Co-Rapporteur: **Segenet Kelemu**, Director, Biosciences eastern and central Africa Hub, International Livestock Research Institute (ILRI), Kenya

10:15-10:45 *Tour of Exhibition "Africa on the Move" - Coffee break*

10:45 – 12:15 **SESSION I: Science, Technology, Engineering and Mathematics (STEM) EDUCATION & LABOR MARKETS IN AFRICA**

Problem 1: Demand for STEM education is growing exponentially, but faculty rosters are not keeping pace and, in many cases, declining. What can Africa do to meet the demand for quality STEM education? What promising models can be developed?



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Chair: Shaukat Abdulrazak, Secretary/CEO National Council of Science and Technology, Kenya

Co-chair: Rebecca Walo Omana, Maths and ICT department, Faculty of Sciences, University of Kinshasa, Democratic Republic of Congo

Discussants: Guy-Florent Ankogui-Mpoko, in charge of Education, Higher Education and Research, Prime Minister's Office, Central African Republic **and Mahouton Norbert Hounkonnou**, UNESCO Chair of Mathematical Physics and Applications, Benin

Rapporteurs: Hamidou Boukary, ADEA and **Anthony Maduekwe**, Science Programme Specialist, UNESCO Office Dar es Salaam

Panelists:

- **Mohammad Hassan**, SIG Board Member, Immediate Past President of the African Academy of Sciences (15 mins)
- **Romain Murenzi**, Executive Director, TWAS-Academy of Sciences for the Developing World and Former Minister of Science and Technology of Rwanda (15 mins)
- **David W. Strangway**, President and CEO, Canada Foundation for Innovation (15 mins)
- **George Essegbey**, Director, CSIR Science technology Policy Research Institute, Accra, Ghana (15 mins)

Moderated 30 min. open discussion on: "What will it take for us to make improvement across Africa in building a strong cadre of professors?"

12:15-13:15 Lunch

13:15-14:45 SESSION I (cont'd): Science, Technology, Engineering and Mathematics (STEM) EDUCATION & LABOR MARKETS IN AFRICA

Problem 2: How can we ensure that STEM graduates have the skills required by prospective private (and public) sector employees? How have other regions tackled these issues?

Chair: Joseph Massaquoi, Director UNESCO Regional Bureau for Science in Africa

Discussants: Boukary Savadogo, Manager, Education, Science and Technology Division, African Development Bank (AfDB) and **Kabiru Kinyanjui**, ADEA

Rapporteurs: Victor Konde, Scientific Affairs Officer, UNECA and **Harry Kaane**, Higher Education, Science and Technology Secretary, Ministry of Higher Education, Science and Technology, Kenya

Panelists:

- **Christopher Tan**, Director, Electrical & Electronics and Innovation Economic Transformation Programme, The Performance Management & Delivery Unit (PEMANDU) under Prime Minister's office, Government of Malaysia (15 mins)



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- **Michel Bezy**, Associate Director, Carnegie Mellon University in Rwanda (15 mins)
- **Dan Marcek**, Organization of American States (OAS)-Engineering for the America's (15 mins)
- **Umar Buba Bindir**, Director General/CEO, National Office for Technology Acquisition and Promotion (15 mins)

Moderated 30 min. open discussion on: "What will it take for us to make improvement across Africa in linking STEM education with labor markets in Africa?"

2:45-3:15 Tour of Exhibition "Africa on the Move" - Coffee break

3:15-4:45 SESSION II: Strengthening Scientific Research: A New Deal for African Science

Problem 3: Many African research centers are trapped in a vicious circle in which low funding levels lead to low quality research with low social and economic relevance. How can a new deal for African R&D, supported and financed by development agencies, provide increased funding for African science in exchange for enhanced quality and relevance? How can inter-disciplinary Pan-African and international partnerships support this process without diluting the focus on Africa's problems as defined by Africans?

Chair: Prof. Crispus Kiamba, Permanent Secretary, Ministry of Higher, Education, Science and Technology, Kenya, and Chair of Local Organizing Committee of the Africa STI Forum

Discussants: Oye Ibidapo-Obe, President, Nigerian Academy of Sciences and **Raphael M. Munavu**, Chairman, Kenya National Academy of Science, Nairobi, Kenya

Rapporteurs: Kevin Urama, Executive Director ATPS, Kenya and **Philippe Mawoko**, Executive Secretary for African Observatory on STI, AUC/ Equatorial Guinea

Panelists:

- **Shig Okaya**, Director, Research Partnership for Sustainable Development Division, Japan Science and Technology Agency (15 mins)
- **Alfred J. Watkins**, Executive Chairman Global Innovation Summit (15 mins)
- **Saul Hahn**, STI consultant and former Chief of the Division of Science and Technology at the Organization of American States (OAS) (15 mins)
- **Beatrice Njenga**, Pan-African University /AUC (15 mins)

Moderated 30 min. open discussion on: "What will it take for us to make improvement across Africa in R&D?"



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16:45 – 18:15 *SESSION II (cont'd): Strengthening Scientific Research: A New Deal for African Science*

Universities for All: A New Model of Education and Research for Africa

Speaker: Kate McKeown, Professor of Entrepreneurship, Fordham Graduate School of Business

Discussant: Michel Bezy, Associate Director, Carnegie Mellon Rwanda

Interactive Participants:

1. **Bakary Diallo**, African Virtual University – *how to use ICT?*
2. **Mustafa El-Tayeb**, President of Khartoum University, Sudan
3. **Salman Khan**, Khan Academy
4. **Olufemi Bamiro**, Former Vice-Chancellor University of Ibadan, Nigeria
5. **Agnes Soucat**, Director, Human Development Department, African Development Bank

6:30 – Cocktail /Reception sponsored by AFDB (venue: poolside)



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Day 2: STI Forum - April 2nd Innovation, Entrepreneurship and Private Sector Development

9:00-9:15 *Keynote on the Consolidated Plan of Action Review Process*

- **Aggrey Ambali**, Director of Policy Alignment and Programme Development, NEPAD

9:15 – 10:45 **SESSION III: Science, Technology and Innovation IN ACTION**

Problem 4: How can a strengthened STI system promote clean drinking water, renewable energy, effective health care, jobs particularly for the youth, and human capital development and inclusive growth development?

Parallel session 1: Water and Sanitation

Chair: Shem O. Wandiga, Managing Trustee, Centre for Science and Technology Innovations, Kenya and University of Nairobi

Provocateur: Paul Ginies, General Manager of 2iE Foundation, International Institute for Water and Environmental Engineering (Burkina Faso)

Rapporteurs: Alex Makarigakis, Science Programme Specialist, UNESCO Addis Ababa Liaison office and **Abou Amani**, Science Programme Specialist, UNESCO Nairobi office

Facilitator: Courtney O'Brien, International Program Assistant, The Global Knowledge Initiative

Interactive Participants:

- **Yongxin Xu**, Professor of Hydrogeology, UNESCO Chair in Groundwater, Department of Earth Sciences, University of the Western Cape, South Africa
- **Jean Patrice R. Jourda**, Professor, *Expert Hydrogéologue Agréé*, University of Cocody-Abidjan/UFR-STRM, Abidjan, Ivory Coast
- **Callist Tindimugaya**, Chair, National IHP Committee, Commissioner for Water Resources Regulation, Ministry of Water and Environment, Uganda
- **Abdalla Abdelsalam Ahmed**, UNESCO Chair in Water Resources the Omdurman Islamic University, Sudan
- **Marie Céline B. Rasoanantoandro-Gothard**, UNESCO Chair in Water Management, University of Bangui, Central African Republic

Parallel session 2: ICT

Chair: Feng Zhao, Manager, Health Division, African Development Bank (AfDB)

Provocateur: Shariq Khoja, Coordinator of e-health Program at the Aga Khan University in Pakistan

Rapporteur: Peggy Oti-Boateng, Senior Programme Specialist in S&T, Coordinator, African Network of



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Scientific and Technological Institutions (ANSTI), UNESCO Nairobi office and **Thierry Amoussougbo**, UNECA **Facilitator: Julius Ecuru**, Assistant Executive Secretary, the Uganda National Council for Science and Technology

Interactive Participants:

- **Moretlo Molefi**, Medical Research Council, South Africa
- **Esther Ogala**, Ministry of Medical Services, Directorate of eHealth Department, Kenya
- **Annah Mandu Gasennelwe**, Jeffrey, Faculty of Engineering and Technology Electrical Engineering Department University of Botswana
- **Elija Omwenga**, Director, ICT Centre, University of Nairobi, Kenya
- **Dele Braimoh**, University of South Africa (UNISA), Institute for Open and Distance Learning, UNESCO Chair in Open Distance Learning, South Africa
- **Fred Gennings Wanyavinkhumbo Msiska**, Director of Centre for Open and Distance Learning, Mzuzu University, UNESCO-COL Chair in Open and Distance Learning, Malawi
- **Sanjaya Mishra**, Programme Specialist, Section for ICT in Education, Science and Culture, Communication and Information Sector, UNESCO

Parallel session 3: Health

Chair: Hassan Mshinda, Director General of the Commission for Science and Technology, Tanzania

Provocateur: Peter Singer, Chief Executive Officer of Grand Challenges Canada and Director at the McLaughlin-Rotman Centre for Global Health

Facilitator: Amanda L. Rose, Program Officer, The Global Knowledge Initiative

Rapporteur: Solomon O. Nwaka, Director, African Network for Drug and Diagnostic Innovation, TDR / World Health Organization

Interactive Participants:

- **Ameenah Gurib Fakim**, Managing Director, CEPHYR, Ebene, Mauritius
- **George Magoha**, Vice Chancellor, University of Nairobi, Kenya
- **Eliangiringa Kaale**, Pharm R&D lab Project Manager School of Pharmacy, Muhimbili University of Health and Allied Sciences, Dar Es Salaam, Tanzania
- **Raphael Dodji Eklun-Natey**, Researcher and Coordinator, Tradition and Medecine, Geneva, Switzerland
- **Yonah Ngalaba Seleti**, Chief Director National Indigenous Knowledge Systems Office (NIKSO), Department of Science and Technology (DST), South Africa

Parallel session 4: Agriculture and Food Security

Chair: Mary Abukutsa, Professor of Horticulture, Jomo Kenyatta University of Agriculture and Technology, Kenya



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Provocateur: Moses Osiru, Deputy Executive Secretary, RUFORUM

Rapporteur: Abdou Chakour Chadhouliati (Bioscience), Deputy Director General, National Institute of Research on Agriculture, Fisheries and Environment (INRAPE), Ministry of Agriculture, Fisheries, Environment, Energy, Industry and Artisanal, Comoros

Facilitator : Christina Golubski, Program Associate, The Global Knowledge Initiative

Interactive Participants:

- **Benedict Kanu**, Lead Specialist, Agriculture & Agro Industry Department, AfDB
- **El Tayeb Alhag Ali Ahmed**, UNESCO Chair in Desertification, University of Khartoum, Sudan
- **Damien Conaré**, Secretary-General UNESCO Chair "alimentations du monde", Institut des régions chaudes, Montpellier SupAgro, France
- **Ray Elliot**, Strategic Project Leader, Syngenta, London, United Kingdom
- **Esther Murugi**, Deputy Vice Chancellor, Jomo Kenyatta University of Agriculture and Technology, Kenya

Parallel session 5: Renewable energy and climate change

Chair: Youba Sokona, Director of Africa, Climate Policy Centre based in Addis Ababa, Ethiopia

Provocateur: Amb. Prof. Salah Hannachi, ADEA

Rapporteur: Muchunku Charles Muneme, Chairman of the Kenyan Renewable Energy Association, Consultant Energy & Climate Change, Kenya and **Felix Toteu**, Science Programme Specialist, UNESCO Nairobi office

Facilitator : Sara E. Farley, Chief Operating Officer, The Global Knowledge Initiative

Interactive Participants:

- **Ogun Davidson**, Former Dean of Engineering at University of Sierra Leone and former Minister, Sierra Leone
- **Rwigema Anastase**, Biofuel Expert, Rwanda
- **Florence Mutonyi D'ujanga**, Head of Physics Department, Makerere University, Kampala, Uganda
- **Mansour Moudachirou**, University of Abomey-Calavi, Faculty of Science and Technology, UNESCO Chair in Sciences, Technologies and Environment, the National University of Benin
- **Martiale Gaetan Zebaze Kana**, UNESCO Chair in Alternative Energy, the Kwara State University, Nigeria

Parallel session 6: Youth Employment

Chair: Wycliffe S. Amakobe, Coordinator, Youth Agency for Development of Science, Technology and



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Innovation, Nairobi

Provocateur: Ginette Nzau-Muteta, Resident Representative of Burkina Faso, African Development Bank (AfDB), Head of AU/AFDB/UNECA/ILO Youth Employment Initiative

Rapporteur: Henry Roman, Chairman WAYS-Africa and **Linda Kamau**, Member of WAYS, Nairobi, Kenya

Facilitator: Andrew Gerard, Program Associate, The Global Knowledge Initiative

Interactive Participants:

- **Ernest Nti Acheampong**, African Youth Forum on Science and Technology Coordinator, Nairobi, Kenya
- **Atieno Ndede-Amadi**, Chief Executive Officer, Country Business Incubator, Nairobi, Kenya
- **Tennyson Magombo**, Chair, African Youth Forum on Science and Technology, Managing Director, Tingadalire Organic Food Products, Malawi
- **Emeka Victor Ngwoke**, Coordinator, AYFST-Nigeria Chapter, Nigeria
- **Bechir Diallo**, Labor Economist, African Development Bank
- **John Paul Oluoch**, Senior Research Assistant, UNESCO

Way Forward: **Thierry Amoussougbo**, UNECA

10:45-11:00 Tour of Exhibition "Africa on the Move" - Coffee break

11:00-12:30 SESSION IV: FROM SCIENCE & TECHNOLOGY TO INNOVATION AND ENTREPRENEURSHIP

Problem 5: How do we build skills to find, adapt and adopt existing global, innovation and knowledge? Innovation and entrepreneurship do not have to be limited to the R&D outputs of African scientists. A vast stockpile of existing inventions and innovations generated outside Africa can be applied to solving Africa's problems. A critical challenge, however, is developing the skills and know-how to find, adapt, and adopt this existing knowledge. How can this be done? What models exist in Asia and Latin America?

Chair: Olugbemiro JEGEDE, Secretary General/CEO of Association of African Universities

Rapporteurs: Sonia Bahri, Chief of Science Policy and Reform Section, UNESCO and **Peggy Oti-Boateng**, Senior Programme Specialist in Science and Technology, UNESCO, Nairobi

Discussants: Dato Lee Yee Cheong, senior fellow Academy of Sciences and chairman of the Governing Board of International Science Technology Innovation Center, Malaysia and **Marjorie Pyoos**, former Director, Department of Science and Technology, South Africa



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Panelists:

- **Matt Rainey**, Director of WIPO's Innovation Division, Innovation and Technology Sector (15 mins)
- **Alistair Brett**, Innovation and Technology Entrepreneurship Centers (15 mins)
- **Tasara Muzorori**, Senior Trade Officer, Common Market for Eastern and Southern Africa (COMESA) (15 mins)
- **Fredrick Otieno**, Deputy Vice-Chancellor for Technology Innovation and Partnership, Durban University of Technology, South Africa (15 mins)

Moderated 30 min. open discussion on: "What will it take for us to make improvement across Africa in creating a culture of entrepreneurship?"

12:30-2:00 Lunch

2:00-3:00 Present, Discuss, & Refine Draft "Call for Action" that has been produced by Rapporteurs from each of the 6 SESSIONS

Presentation by the General Rapporteurs: Segenet Kelemu, and Ahmadou Ndiaye

3:00-3:30 Tour of Exhibition "Africa on the Move" - Coffee break

3:30-5:00 SESSION IV (cont'd): FROM SCIENCE & TECHNOLOGY TO INNOVATION AND ENTREPRENEURSHIP

Problem 6: How can Africa cultivate a dynamic innovation eco-system? S&T does not generate economic or social benefits unless the results of that R&D are converted into new goods and services. This entails moving from R&D and S&T to innovation and entrepreneurship. How can Africa cultivate a dynamic national, regional, and continental innovation eco-system? What lessons can be learned from Silicon Valley and other innovation hot spots and how can they be applied to support and finance fledgling entrepreneurs?

Chair: Alfred J. Watkins, Executive Chairman Global Innovation Summit

Rapporteurs: Victor Konde and Thierry Amoussougbo, UNECA

Discussants: George Essegbey, Director, CSIR Science technology Policy Research Institute, Accra, Ghana

Panelists :

- **Greg Horowitz**, Global Connect University of California San Diego (15 mins)
- **John Kohler**, Director, Social Capital, CSTS & Co-founder, Center for Science, Technology and Society, Santa Clara University, Tonic (15 mins)
- **Adam Stelle** Chief Operating Officer at Startup Weekend (15 mins)
- **Banji Oyelaran-Oyeyinka**, Director, Monitoring & Research Division (MRD), UN-HABITAT (15 mins)



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Moderated 30 min. open discussion on: "What will it take for us to make improvements across Africa in cultivating a climate of entrepreneurship?"

5:00 – 6:00 SESSION V: Special Panel with Private Sector, Youth, Entrepreneurs and Innovators

Chair: Gabriel Negatu, Director East Africa Regional Resource Center, African Development Bank

- **Zika Abduk**, Head, Corporate Responsibility for Europe, Middle East and Africa, Cisco
- **Suhas Gopinath**, CEO & President, Global Inc., and World Economic Forum Young Global Leader
- **Jessica Colaco**, Manager, iHub Kenya
- **Haitham Desoky**, Egypt, Winner of the first prize in the "Stars of Science" Competition for his touch screen invention Vivifi
- **Jawad Nabulsi**, Egyptian Social Activist and Entrepreneur, Founder, Nebny Foundation

7:00 – 9:00 Official Dinner hosted by the Government of Kenya

Location: Hotel Intercontinental



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Day 3: Ministerial Conference- April 3rd

11:00 Opening Statements

Master of Ceremony: Representative from ADEA

- Chairperson, African Ministerial Conference for Science and Technology
- **Abdoulaye Janneh**, United Nations Under-Secretary General and Executive Secretary of the UN Economic Commission for Africa
- **Jean Ping**, Chairperson, African Union Commission
- **Donald Kaberuka**, President, AfDB
- Minister of Education Honorable **Mutula Kilonzo**
- **Irina Bokova**, Director-General, UNESCO
- **Minister of Higher Education Science and Technology Honorable Margaret Kamar to invite His Excellency Hon. Mwai Kibaki, C.G.H., M.P., President and Commander in Chief of the Defense Forces of the Republic of Kenya**

12:00 Tour of Exhibition "Africa on the Move" - Coffee break /Press Conference/Photo Op

12:00 Lunch

2:00 Summary of the Experts meeting

Co-Chair: **Lalla Aïcha Ben Barka**, Assistant Director-General Africa Department, UNESCO and **Agnes Soucat**, Director, Human Development Department, African Development Bank (AfDB)

- Report of the of the experts meeting
- Where are we?
- Where do we want to be?
- How do we get there?

General Rapporteurs: Lamine Ndiaye and Segenet Kelemu

3:00-4:00 Ministerial Round Table on the Integration of STI policies in national and regional development agendas

Chair: **Gretchen Kalonji**, Assistant Director-General for Natural Sciences, UNESCO

Keynote presenter: **Mammo Muchie, Professor and Director of the Research Centre on Development Studies and International Relations**

- **Tanzania, Egypt, Gambia, Central African Republic, Mauritius**
- **Toshiharu Fueta**, Counsellor, Bureau of Science, Technology and Innovation Policy
Bureau of Science, Technology and Innovation Policy, Cabinet Office, Government of Japan



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4:00-4:30 Coffee Break

4:30-5:30 Ministerial Round Table on Financing Mechanisms and Sectoral Investments for the development of Africa: Challenges and Opportunities for STI in Africa

Chair: Agnes Soucat, Director, Human Development, African Development Bank

Keynote presenter: Riadh Sifaoui, CEO Tekere Consulting, Former Executive Partner of Accenture, Tunisia

- **South Africa, Zambia, Tanzania, Nigeria, DRC, Tunisia**
- **Tomoko Hamachi**, Deputy Director for Science, Technology and Innovation Policy Bureau of Science, Technology and Innovation Policy, Cabinet Office, Government of Japan

4:30-5:30 Closing Ceremony, Exhibition “Africa on the Move” Results and Award presentation

Chair: Romain Murenzi, Executive Director of TWAS and former Minister of Science and Technology of Rwanda

- **Nairobi Declaration** on STI for job creation, human capital development and inclusive growth
- **Press Conference / Photo op**

*We thank the Nigerian Trust Fund of the African Development Bank for its generous contribution to the First Africa Forum on Science, Technology and Innovation



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