



**Ministry of Education**  
Republic of Ghana



ASSOCIATION OF TECHNICAL UNIVERSITIES  
AND POLYTECHNICS IN AFRICA



THE ATUPA  
INTERNATIONAL  
CONFERENCE

on  
Mainstreaming TVET for Skills Development,  
Mobility and Resilient Economies in Africa

Accra, Ghana • 27th August — 2nd September 2023



*The Ghana Independence Arch, Accra. Picture Courtesy: George Appiah, From Wikimedia Commons, the free media repository ([https://commons.wikimedia.org/wiki/File:Independence\\_Arch\\_-\\_Accra,\\_Ghana1.jpg](https://commons.wikimedia.org/wiki/File:Independence_Arch_-_Accra,_Ghana1.jpg))*

# ATUPA 2023 Accra INTERNATIONAL CONFERENCE

on

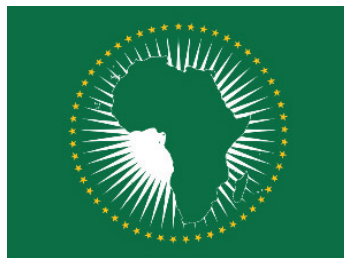
“Mainstreaming TVET for Skills Development,  
Mobility and Resilient Economies in Africa”

# PROGRAMME



## NATIONAL ANTHEM OF GHANA

God bless our homeland Ghana,  
And make our nation great and strong,  
Bold to defend forever,  
The cause of Freedom and of Right.  
Fill our hearts with true humility  
Make us cherish fearless honesty,  
And help us to resist oppressor's rule  
With all our will and might for evermore.



## AFRICAN UNION ANTHEM

Let us all unite and celebrate together  
The victories won for our liberation  
Let us dedicate ourselves to rise together  
To defend our liberty and unity



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中国教育国际交流协会

CHINA EDUCATION ASSOCIATION FOR INTERNATIONAL EXCHANGE



# ATUPA 2023 Accra INTERNATIONAL CONFERENCE

on

**“Mainstreaming TVET for Skills Development, Mobility and Resilient Economies in Africa”**

<b>ORGANISED BY:</b>	Association of Technical Universities and Polytechnics in Africa (ATUPA)
<b>DISTINGUISHED GUESTS of HONOUR:</b>	Hon. Dr. Yaw Osei Adutwum <i>Minister for Education, Republic of Ghana</i> H.E Prof Mohammed Belhocine <i>Commissioner – Education, Science, Technology, and Innovation, African Union Commission (AUC)</i>
<b>GUEST SPEAKER:</b>	Hon. Dr. Yaw Osei Adutwum, <i>Minister for Education, Republic of Ghana</i>
<b>CHIEF HOST:</b>	Prof. Samuel E. Alnaa <i>Chairman of VCTU-G &amp; VC, Bolgatanga Technical University</i>
<b>VENUE:</b>	Accra, Ghana
<b>DATE:</b>	August 27th – September 2nd, 2023

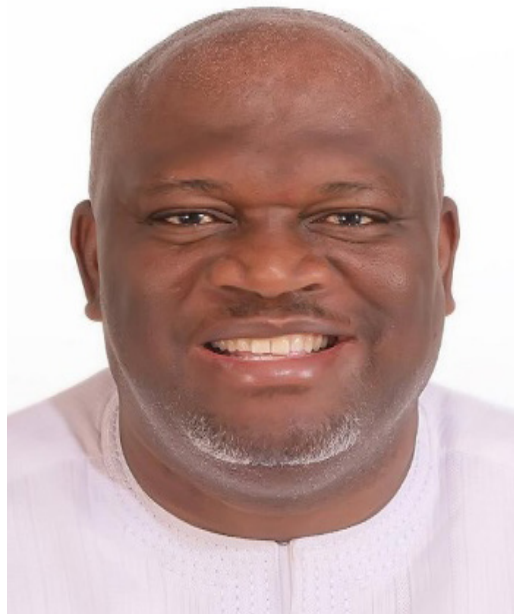
## DISTINGUISHED GUESTS OF HONOUR



**Hon. Dr. Yaw Osei Adutwum**  
*Minister for Education, Republic of Ghana*



**H.E Prof Mohammed Belhocine**  
*Commissioner – Education, Science, Technology, and Innovation, African Union Commission (AUC)*



**Hon. Henry Quartey**  
*Greater Accra Regional Minister*



**Prof. Samuel E. Alnaa**  
*Chairman of VCTU-G & VC, Bolga Technical University (Chief Host)*



**Jahou Samba Faal (Dr. Hc)**  
*ATUPA Secretary General & Secretary to the ATUPA Executive Board*



**Prof. Ben Q. Honyenuga**  
*ATUPA Executive Board Member, Country Representative,  
& Vice Chancellor, Ho Technical University, Ghana*



ASSOCIATION OF TECHNICAL UNIVERSITIES  
AND POLYTECHNICS IN AFRICA

## ABOUT ATUPA

The Commonwealth Association of Technical Universities and Polytechnics in Africa (CAPA), formerly known as the Commonwealth Association of Polytechnics in Africa, was established in 1978, with a mandate to promote TVET for job creation and economic development in the member countries, following a resolution of the 7th Conference of Commonwealth Education Ministers held in Accra, Ghana in 1977. Since inception, the headquarters seat of ATUPA has been at the Technical University of Kenya in Nairobi, under a diplomatic agreement with the Government of Kenya. Presently, ATUPA has a membership of 225 post-secondary education institutions, comprising a well-integrated profile of technical universities, polytechnics, technical colleges and Vocational training institutes that are focused on the production of technical manpower for the world of work; and on innovation to spur technological/industrial development in Africa.

The Africa Transformational Master Plan (AU Agenda 2063) provides the framework for all governmental, institutional and bilateral development action plans in the African continent. This Master Plan serves as an incentive for ATUPA's mandate of 'supporting professional and skills development among its member institutions across the continent'. In this effort, ATUPA is further guided by global TVET trends, and their implications for Africa's transformational agenda. The theme of the 2023 Conference therefore seeks to generate transnational and trans-institutional discussion themes and knowledge transfer partnerships (KTPs) frameworks that not only aim to bring innovative approaches to TVET programming in Africa, but also make effort at harmonizing the conception of TVET and its contributions to Africa's social and economic development goals. It is against this background, that the theme of 2023 ATUPA Annual Conference: “Mainstreaming TVET for Skills Mobility and Resilient Economies in Africa” was conceptualised. The overarching goal of this theme is to draw on our understanding of current trends in the global TVET environment and the statutory incentives of multilateral tools like the 2030 Agenda, and recent AU instruments like the Africa Continental Free Trade Agreement (AFCFTA) to revise the existing paradox of non-resilient and intra-national TVET programming models in Africa. The Conference aims to draw on the lessons learned from the limitations of existing TVET programming models to stimulate a post-pandemic debate amongst TVET stakeholders. This debate will focus on learning how cross-border linkages in the TVET value chain can be optimised in the pursuit of an inclusive socio-economic renaissance for Africa. The choice of this theme is not only intended to signal the need for a renewed and innovative approach to TVET products and value chain development. It also aims to reinforce and augment existing programmes and partnerships within the frames of an emerging trend of increasingly, mobile, scalable and integrated continental economy. The rationale for this approach draws further on the premise that continental TVET models have greater potentials in supporting the achievement of a transformed and resilient African economy. The conference theme will thus generate a confluence of ideas in supporting ATUPA member institutions in incentivising skills revolution and the production of excellent knowledge infrastructure (physical and technical) in their respective countries. These are goals that will reinforce the transformational continental vision of an empowered youth population, STI skills-driven industrialisation, inclusive economic growth, and scalable income streams through the decent work philosophy.

# ATUPA AWARDS OF EXCELLENCE FOR DEVELOPMENT IN AFRICA

The Association of Technical Universities and Polytechnics in Africa (ATUPA) is dedicated to promoting skills development to foster wealth creation across the continent. Established in 2014, the ATUPA Annual Awards of Excellence honor outstanding individuals and organizations contributing to technical education and socio-economic progress in Africa. These awards spotlight leaders in policy, industry, business, and social enterprises who positively influence African development and are aligned with ATUPA's goal of forming a potent network of influential partners to achieve the African Union's Development Agenda 2063.

## RECIPIENTS OF ATUPA 2023 AWARDS OF EXCELLENCE FOR DEVELOPMENT IN AFRICA

In the year 2023, the Association of Technical Universities and Polytechnics in Africa is honored to give awards of excellence to the following dignitaries.

### 1 **Dr. Fred Kyei Asamoah,**

Dr Fred Kyei Asamoah holds a Doctor of Pharmacy Degree from the University of Denver, Colorado -USA; a Bachelor of Pharmacy from the Kwame Nkrumah University of Science and Technology, Kumasi. He is the current Director General of the Commission for Technical and Vocational Education and Training (CTVET) who believes that Ghana's entrepreneurship and industrialization agenda can only succeed if the youth focus on equipping themselves with vocational and technical skills. Dr Asamoah exhibits a high level of dedication to TVET development and progress in Ghana and he has been part of a team that developed a five-year strategic plan to restructure TVET delivery in Ghana 2018-2022, to align it with the government's vision of using TVET as a tool for job creation, industrial development, and economic growth. Dr. Asamoah is also, a strong believer in results and is set to change the face of TVET and Skills Development in Ghana and Sub-Saharan Africa. We are, therefore, extremely humbled to be associated with him. Indeed we as an association appreciate him with this Award of Excellence.

### 2 **Prof. Mohammed Salifu**

Prof Mohammed Salifu is a holder of a Ph.D. in Transport Engineering at the University of Newcastle upon Tyne. He also Studied Civil and Highway Engineering at **Moscow Automobile and Road Construction State Technical University**. Currently, Prof. Salifu is the Director-General of the Ghana Tertiary Education Commission (GTEC). He possesses over twenty years of experience in higher education teaching, research, and service to industry and the community as a transportation and road transport safety and logistics expert. He is also, a Professor of Transport Engineering at the Department of Civil Engineering at the Kwame Nkrumah University of Science and Technology (KNUST). Over the years, he has served variously as Head of Civil Engineering at KNUST (2010-2014), Head of the Traffic, and Transportation Engineering Division of the Council for Scientific and Industrial Research (CSIR) from 2004 to 2006. He has training in finance for non-finance managers, Corporate Governance, strategic team building, and appraisal. Prof. Salifu was the Executive Secretary of the National Council for Tertiary Education (NCTE). Prof. Salifu is a Fellow of the Ghana Institution of Engineers and has served *inter alia* as the National Vice President and Head of Education and Training from 2011-2012 and as the patron and sole sponsor of the Dagbon Thesis Assistance Fund. The Executive Board and the entire ATUPA Family honor Prof. Mohammed Salifu for his excellent role as Director-General of GTEC in ensuring parity of prestige among universities in Ghana and for his particular commitment towards STEM Education, TVET development and for his outstanding role in the transformation of Technical Universities in Ghana.

### 3 Hon. Dr. Yaw Adutwum

ATUPA is honored to award Hon. Dr. Yaw Adutwum an award of excellence in recognition of his exceptional role in the development of education in Ghana. Hon Dr. Yaw Adutwum is the current Minister of Education. He is also the Founder and former Chief Executive Officer of *New Designs Charter Schools*. Before founding the first New Designs Charter School, he worked as a Mathematics and Information Technology teacher at Manual Arts High School for ten years. At Manual Arts High School, he founded the International Studies Academy, which served as a small learning community where many students thrived socially and academically. In addition, he served as a Lead Math Teacher in the USC/Manual Arts Neighborhood Academic Initiative (NAI).

His experience in the NAI program confirmed his belief that high standards in a well-structured learning environment could lead to higher levels of student achievement. Most of the students he taught in the NAI program proceeded to higher education in institutions like UCLA, USC, Yale, UC Berkeley, Stanford, and Cornell University among others.

At the national level, he served for two years as a member of a task force established by the *National Research Center for Career and Technical* to develop a national model for career and technical education at the high school and college levels. The project was coordinated by the New Designs for Learning Center based at the University of Oregon and was headed by George Copa, a professor of education and a career and technical education expert.

Hon. Dr Yaw Osei Adutwum grew up in Ghana and obtained a Bachelor's degree in Land Economy (Business Administration with a major in Real Estate) from the *Kwame Nkrumah University of Science and Technology*. In addition, he has a Master's degree in Education Management from the University of La Verne and a Ph.D. in Educational Policy, Planning, and Administration from the University of Southern California (USC).

As a Minister for Education par excellence, Hon. Dr. Yaw Osei Adutwum has provided an effective roadmap for the development of Ghana and Africa through Technical and Vocational Education Training. His penchant for TVET keeps resonating in policies he has spearheaded and is harnessing effective resources for productive TVET implementation. In 2022, he granted scholarships to engineering and medical students from his constituency for the 2022 academic year. With this initiative, the total number of students receiving the MP's scholarship for engineering and medicine has grown tremendously, inching closer to his goal of supporting 100 students within a 10-year timeframe. Indeed, the records of the socio-economic development of Ghana and Africa, in general, cannot be complete without acknowledging Hon. Dr. Yaw Osei Adutwum's tremendous role in this great feat in the lives of the youth and young people across the continent. We, therefore, say, ayekoo! Well done, Hon. Minister, Dr. Yaw Adutwum.



## SPEAKERS PANEL



**Dr. Fred Kyei Asamoah**

*Director General  
Commission for Technical and Vocational  
Educational and Training, CTVET, Ghana*

Dr. Fred Kyei Asamoah is the Director General of the Commission for Technical and Vocational Education and Training (CTVET). He is a pharmaceutical expert with a proven track record in achieving results in drug design, public health, regulatory compliance and enforcement, policy planning and implementation, monitoring and evaluation, Cooperate governance and strategic management. Dr. Asamoah has provided training strategies and performance coaching techniques that has featured in many development organisations across continents. Since becoming the Director General of the Commission for TVET, Dr. Asamoah has exhibited a high level of dedication to TVET development in the country. He was part of the team that developed a five-year strategic plan to restructure TVET delivery in Ghana, and align it with government's vision of using TVET as a tool for job creation, industrial development, and economic growth.



**Mr. YU Yunfeng,**

*Secretary General  
China Education Association for  
International Exchange (CEAIE)*

Prior to his current duties, Mr. YU served as the Council member and Deputy Secretary-General of Chinese International Education Foundation. Before that, he has successively held the posts including Treasurer of New York Service Center for Chinese Study Fellows, Education Counselor of the Chinese Embassy in Singapore, Deputy Director-General of Hanban and Deputy Chief Executive of the Confucius Institute Headquarters. With a long-term commitment to the mission of international education exchange, Mr. YU has conducted an in-depth study on the policies and practices of international exchange on education, as well as the administration and management of non-profit organization, gained rich experience and expertise. Mr. YU graduated from Nanjing Normal University as Bachelor in Science, majored in Applied Electronics.



**Ms. Jacqueline Mugo, EBS, MBS,  
OGW**

*Executive Director & CEO, Federation of  
Kenya Employers  
Secretary General, BUSINESS Africa  
Employers Confederation  
IOE Vice President for Africa*

Jacqueline Mugo is the Executive Director and Chief Executive Officer of the Federation of Kenya Employers (FKE) and the IOE Vice-President for Africa. A lawyer by profession, she is a titular board member of the Governing Body of the International Labour Organization (ILO), a member of the Management Board of the International Organisation of Employers (IOE); the Secretary-General of BUSINESS Africa Employers Confederation which is the employers' body in Africa and the first Chairperson of the East African Employers' Organization. Jacqueline plays a critical role in the development of labour and social policy and represents employers and the business community at the African Union Specialised Technical Committee (STC) on Social Development, Labour and Employment, the ACP-EU Follow-up Committee on Economic Partnership Agreements and the Joint EU-Africa Parliamentary Assembly. Ms. Mugo also serves in various boards at the national level including the Higher Education Loans Board, the National Employment Authority and the National Labor Board. Her passion is effective governance and advocacy to influence a conducive business environment for enterprise competitiveness and job creation.



**Prof. Mohammed Salifu**

*Director General*

*Ghana Tertiary Education Commission,  
GTEC*

Prof. Mohammed Salifu has over twenty years of experience in higher education teaching, research and service to industry and the community as a transportation and road transport safety and logistics expert. He is a Professor of Transport Engineering at the Department of Civil Engineering at the Kwame Nkrumah University of Science and Technology (KNUST). Over the years, he has served variously as Head of Civil Engineering at KNUST (2010-2014), Head of Traffic, and Transportation Engineering Division of the Council for Scientific and Industrial Research (CSIR) from 2004 to 2006. He has training in finance for non-finance managers, Corporate Governance, strategic team building and appraisal. Prof. Salifu was the Executive Secretary of the National Council for Tertiary Education (NCTE) and currently serves as the Director of the Ghana Tertiary Education Commission (GTEC). Furthermore, he is a Fellow of the Ghana Institution of Engineers and served as the National Vice President and Head of Education and Training 2011-2012. In the year 2012, he was a member of the International Road Federation Group of Experts on Road Safety and was also Chairman of the session on Governance, at the International Seminar on Road Financing and Investment in April 2007. He was the leader of the Accra to Kumasi dualisation project. He has also researched and executed several road and transport infrastructure projects in various capacities, including Team Leader and Transport/Logistics Engineer.



**Chigozie Emmanuel Okonkwo**

*Department of Education, Science, Technology  
and Innovation, AUC*

Mr. Chigozie Emmanuel Okonkwo serves as a Program Officer within the Division for Education at the Department of Education, Science, Technology, and Innovation within the African Union Commission. In his role, Mr. Chigozie actively participates in advancing education policies across the African continent. His primary focus is on the effective implementation of key educational strategies, notably the Continental Education Strategy for Africa (CESA 16-25) and the Continental TVET Strategy, all within the broader framework of the African Union 2063 Agenda. Mr. Okonkwo possesses a diverse background encompassing training and professional experiences in both the private and public sectors, equipping him with a well-rounded perspective on educational development. He holds a master's degree in Comparative Education, further enhancing his qualifications and expertise in the field.



**Zong Wa**

*Deputy Secretary-General  
China Education Association for  
International Exchange (CEAIE)*

Over Mr. Zong's career in the field of education with CEAIE, he served as the Deputy Director of the Department of International Liaison as well as the Department of American and African Affairs where he concurrently served as the Director of China Center for International Educational Exchange (CCIEE). Later, he continued to work as the Director of the Department of American and African Affairs. He has also served as the Third Secretary at the Chinese Embassy in Canada and Minister Counsellor at the Chinese Embassy in Australia (Director-General Rank). He graduated from Shanghai Jiao Tong University with a major in mechanical engineering and achieved a master's degree in educational management from New York University.



**Prof. Keolebogile Motaung,**  
*Director, Technology Transfer & Innovation,  
Durban University of Technology, South  
Africa*

Prof. Keolebogile Motaung, a seasoned Biomedical Scientist and Full Professor, leads as Director of Technology Transfer and Innovation at Durban University of Technology. With over 24 years in Higher Education, she's a recognized expert in stem cells, tissue engineering, and regenerative medicine. She's the president of ATERMIS, a society focused on tissue engineering and regenerative medicine. Her passion lies in capacity building and mentoring young researchers. She's a driving force in STEM, innovation, and entrepreneurship, aiding women in international relations for STEM research. Prof. Motaung's groundbreaking work includes a natural anti-inflammatory ointment from medicinal plants, a product for preventive muscle care, and a plant-based protein shake for muscle inflammation and regeneration. Her remarkable achievements have garnered numerous prestigious awards, showcasing her dedication to bridging science, entrepreneurship, and commercialization.



**Ronald S.J. Tuninga,**  
*Vice President and MD Europe, Middle East  
and Africa  
Association to Advance Collegiate Schools of  
Business (AACSB) International*

Ronald (Ron) Tuninga is an international, innovative, and entrepreneurial leader with expertise in both the public and private sectors in higher education. He has been a successful dean in three European countries and has experience in developing and running graduate and undergraduate programs on five continents, across 35 countries. He has in-depth knowledge of the European, Middle Eastern, and African higher education systems and has been actively involved as a volunteer in various international accreditation organizations, including AACSB, EFMD, and AMBA. Tuninga is the former vice president of academic affairs at Wittenborg University of Applied Sciences in the Netherlands, pro vice chancellor of enterprise and dean of the Faculty of Business and Law at Kingston University London, and dean at AVT Business School in Copenhagen, Denmark. Furthermore, he was the former director dean at the Maastricht School of Management in the Netherlands. His PhD is from Temple University in Philadelphia, USA. Tuninga holds an MA in economics, an MBA in international business, and an MSc in marketing. His research publications have appeared in more than 70 journals and proceedings of international conferences. He has been involved in international projects funded by the Dutch government, World Bank, European Union, United Nations, and other international organizations. From 2007 to 2009 he also served as president of the International Management Development Association.



**Seija Mahlamäki-Kultanen**  
*Dean of HAMK School of Professional  
Teacher Education,  
Häme University of Applied Sciences  
(HAMK), Finland*

Adjunct professor Seija Mahlamäki-Kultanen is a dean in Professional Teacher Education Unit at Häme University of Applied Sciences, also the vice chair of the National Teacher Education Forum since appointed by the Minister of Education and Culture in Finland. She is interested in all types of education with a special focus on teacher development and global education. She has published more than 100 scientific and professional publications on education as well as has work experience in education, research and development with vocational institutions, universities and universities of applied sciences.

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**Dr. Cosam Joseph**  
*Regional Project Coordinator  
East Africa Skills for Transformation and  
Regional Integration Project (EASTRIP),  
Uganda*

Dr. Joseph has nearly 25 years of expertise in higher education management, research, quality assurance, and strategic planning. His passion lies in sustainable innovation and transformative change. With a talent for forging relationships, he excels in designing and executing projects, data management, and fostering teamwork. Dr. Joseph possesses strong leadership, analytical, and communication skills. As the EASTRIP Regional Project Coordinator, his role entails strategic leadership and management aligned with project goals. He oversees activities in East Africa, implements TVET qualifications frameworks, enhances program quality, and promotes regional integration. His responsibilities also include stakeholder engagement, fund management, and accountability. Before EASTRIP, Dr. Joseph led quality assurance and qualification framework efforts at IUCEA. He contributed to policy development, harmonization, and quality assurance system implementation. His work encompassed East African integration, qualifications frameworks, capacity building, and advocacy. He actively participated at the continental level in various initiatives and represented IUCEA in forums. Dr. Joseph's academic journey led him from academic positions at the University of Dar es Salaam to leadership roles. He holds advanced degrees in chemistry and a Ph.D. specializing in organic chemistry. His research contributions include numerous publications and supervising students. He managed multiple projects funded by global organizations. Overall, Dr. Joseph's extensive experience and accomplishments have significantly impacted higher education, quality assurance, and regional integration efforts across academia and organizations.



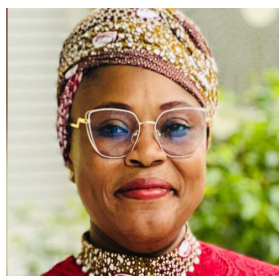
**HE. Dr. Erick Mutai,**  
*Governor Kericho County, Kenya  
Chair Education Committee, Council of  
Governors*

Dr. Erick Mutai is Kericho county's second governor, after Paul Chepkwony who led the county between 2013 – 2022. Dr. Mutai was sworn in as the governor on August 25th, last year after emerging victorious in the governor's race in the general election held on August 9th of that year. During the Election, Mutai garnered 316,768 votes to beat by wide margin Isaac Biyegon (IND) who came second in the general election with 6, 603 votes. Joseph Kirui (UDM) garnered 6,529 while Eng. Samuel Rotich (IND) – 2,484 came third and fourth respectively. The 39 - year-old governor comes from Bureti constituency. He was born on December 28, 1983. Dr. Mutai began his formal education at Rugut Primary where he sat his Kenya Certificate of Primary Education examination in 1996. The politician's first trace of leadership qualities was at Litein High School where he studied between (1997-2001) and served as dining hall captain. Before tossing his hat into the political arena, Dr. Mutai worked as a literature and communication lecturer at Embu university. The governor holds a doctorate in Literature and Communication from Laikipia University where he graduated in 2017. Dr. Mutai, a father of two children, is popularly known in political circles as the "Equalizer".

## PANELISTS – WITED FORUM



**Prof. Elyjoy Micheni**  
*Deputy Principal, Tom Mboya University  
College, Kenya*



**Ing. Prof. Hamidatu S. Darimani**  
*Associate Professor, Dr. Hilla Limann  
Technical University, Ghana*



**Ms. Jacqueline Mugo, EBS, MBS, OGW**  
*Executive Director & CEO, Federation of  
Kenya Employers(FKE)*



**Prof. (Mrs.) Smile Dzisi**  
*(Associate Professor – Entrepreneurship  
and Innovation) Chief Consultant, JMB  
Consult, Koforidua – Eastern Region, Ghana*



**Dr. Mrs. Emeagi, Ijeoma**  
*Head of department at Federal Polytechnic  
Nekede Owerri, Imo Nigeria*

## PANELISTS – PANEL DISCUSSION SESSION



**Chigozie Emmanuel  
Okonkwo**  
*Department of Education,  
Science, Technology and  
Innovation, AUC*



**Lena Watt Diop**  
*Programme Specialist,  
Organisation Internationale  
de la Francophonie (IFEF)*



**José Edmond Meku Fotso**  
*Programme Officer, UNESCO*



**Asher Mutijima**  
*ICT & Multimedia Trades Specialist,  
Rwanda TVET Board*



**Hamidou Diallo**  
*“Directeur National Du  
Numérique”, Ministry of  
TVET, Republic of Guinea*

PHOTO

**Keiko Takei**  
*Chief Education Analyst,  
AfDB*



**Ms. Melanie Hinderer**  
*Advisor, Agri-Business Facility  
for Africa (ABF)*



**Dr. Ozioma Ikonne**  
*Deputy Director, Institute of  
Innovation and Entrepreneurship,  
University of Applied Science,  
Engineering and Technology (USET),  
The Gambia*

## ATUPA EXECUTIVE BOARD

**PROF. LAILA ABUBAKAR**

Vice Chancellor, Technical University of Mombasa, Kenya



Chairperson, ATUPA Executive Board

**DR. ENG. TAFADZWA MUDONDO**

Principal, Harare Polytechnic, Zimbabwe



ATUPA Vice Chairman (Southern-Central Region)

**PR. MOUHAMED FADEL NIANG**

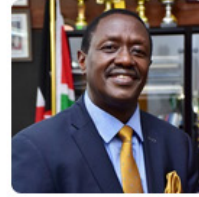
Coordonnateur du Réseau des ISEP du Sénégal Institut supérieur d'Enseignement professionnel



ATUPA Vice Chairperson (Western Region)

**DR. EDWIN TARNO**

Chief Executive Officer, Kenya School of TVET



Regional Funds Mobilisation Coordinator (Eastern Region)

**PROF ALOYS N. MVUMA**

Vice Chancellor, Mbeya University of Science & Technology, Mbeya, Tanzania



Chairman, ATUPA Editorial Committee

**MRS P. WATEMA**

Principal, Mutare Polytechnic, Zimbabwe



Regional Gender Representative, (Southern-Central Region)

**REV. PROF. JOHN FRANK ESHUN**

Vice-Chancellor, Takoradi Technical University, Ghana



Representative of Technical Universities

**PROF. BEN Q. HONYENUGA**

Vice Chancellor, Ho Technical University, Ghana



Country Representative, Ghana

**MRS. GLORY MUTUNGI**

Principal, Nairobi Technical Training Institute, Kenya



Chairperson, Projects Committee

**PROF. SPIRIT B. TLALI**

Rector, Lerotholi Polytechnic, Maseru, Lesotho



Country Representative of Lesotho

**MR. C. T. AKUMU OWOUR**

Director TVET Programmes, Technical University of Kenya



Member of the Executive Board

**MR. SUZGIKA WALTERS MVALO**

Principal, Lilongwe Technical College, Malawi



Country Representative of Malawi

**DR. SAMSON A.O. ADEGOKE**

Rector, Osun State College of Technology, Nigeria



Regional Funds Mobilisation Coordinator (Western)

**ING. PROF. HAMIDATU S. DARIMANI**

Director, Gender and Diversity Centre and TVET Board Chair, Dr. Hilla Limann Technical University, Ghana.



Regional Gender Representative (Western Region)

**DR. STELLA AWOH MOFUNAYA**

Rector, Reedemers's Polytechnic, Nigeria



Regional Administrative Officer (Western Region)

**DR. SAMUEL B. KALAGBOR**

Rector, Captain Elechi Amadi Polytechnic



COHEADS Chairperson & Country Representative of Nigeria

**MR. DANIEL NYIRENDA**

**Principal, Ukwimi Trades Training  
Institute in Petauke, Zambia**



Chairperson of the Principals  
Forum in Zambia & Country  
Representative of Zambia

**JAHOU SAMBA FAAL (DR. HC)**

**ATUPA Secretary General, ATUPA  
Secretariat**



Secretary to the Executive Board

**DR. SYLVIE MUCYO**

**Deputy Vice Chancellor, TIDR, Rwanda  
Polytechnic, Rwanda**

ATUPA Vice Chairperson (Eastern  
Region)

**PROF. MOHAMED KONNEH**

**Principal, Eastern Technical University  
of Sierra Leone**

Country Representative of Sierra  
Leone

**DAVID MAINA MWANGI**

**Principal, Nyeri National Polytechnic  
& National Chairperson KATTI**

Country Representative of Kenya

# NOTES

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# THE ATUPA INTERNATIONAL CONFERENCE

on

*Mainstreaming TVET for Skills Development,  
Mobility and Resilient Economies in Africa*

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Accra, Ghana • 27th August — 2nd September 2023

ATUPA 2023 ACCRA INTERNATIONAL CONFERENCE

# PROGRAMME

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## SUNDAY, AUGUST 27, 2023

All hours	Arrival of Delegates
18:00 – 20:00	ATUPA Executive Board Meeting

## MONDAY, AUGUST 28, 2023

07:30 –	Registration of delegates
<b>THE 2<sup>ND</sup> CHINA-AFRICA TVET COOPERATION CONFERENCE (CATCC)</b>	
08:30 – 09:00	Housekeeping
09.00 – 9.30	<p><b>OFFICIAL OPENING</b></p> <p><b>Venue:</b> <i>Main Hall</i></p> <p><b>Moderator:</b> Rev. Prof. J. F. Eshun, <i>Vice-Chancellor, Takoradi Technical University &amp; ATUPA Representative of Technical Universities</i></p> <ul style="list-style-type: none"> <li>- Welcome remarks by <b>Jahou Samba Faal (Dr. Hc)</b>, <i>Secretary General, ATUPA</i></li> <li>- Address by <b>Mr. Zong Wa</b>, <i>Deputy Secretary General, China Education Association for International Exchange, CEAIE</i></li> </ul>
9.30 – 10:20	<p><b>KEYNOTE SPEECH</b></p> <p><b>Venue:</b> <i>Main Hall</i></p> <p><b>Moderator:</b> Rev. Prof. J. F. Eshun, <i>Vice-Chancellor, Takoradi Technical University &amp; ATUPA Representative of Technical Universities</i></p> <p><b>Speech 1:</b> <i>Towards Economic Freedom: Redefining / Reengineering TVET Systems in Africa</i></p> <p><b>Speaker:</b> Prof. Laila Abubakar, <i>ATUPA Executive Board Chairperson &amp; Vice Chancellor Technical University of Mombasa, Kenya</i></p> <p><b>Speech 2:</b> <i>Matching TVET curriculum with changing Needs: System, Methodology and Content</i></p> <p><b>Speaker:</b> Dr. Liu Yufeng, <i>Senior Program Specialist, Higher Education Section, UNESCO</i></p> <p><b>Speech 3:</b> <i>Annual Report of CATCC</i></p> <p><b>Speaker:</b> Ms. Zhang Junqing <i>Senior Program Director of Department of TVET and Professional Training, CEAIE</i></p>
10.20 - 10.30	<b>Group Photo</b>
10.30 – 11.00	<b>Tea Break</b>
11.00 – 12.00	<p><b>CASE SHARING</b></p> <p><b>Moderator:</b> Prof. Amevi Acakpovi, <i>Ag. Vice-Chancellor, Accra Technical University</i></p> <p><b>Case 1:</b> Topic: <i>Future of Africa - Faculty Capacity Building</i> Mr. He Xingyue, <i>President of Technology Zhejiang Institute of Mechanical and Electrical Engineering</i></p> <p><b>Case 2:</b> Topic: <i>Retracing and Reconstructing African Education Ecosystem through Educational Decolonisation and Heritage Based Education Philosophy – The case of Africa</i> Dr. Eng. Tafadzwa Mudondo <i>Principal Harare Polytechnic, Member, ATUPA Board, Zimbabwe</i></p> <p><b>Case 3:</b> Topic: <i>Future of Africa - Skills Training and Certification</i> Mr. Zhou Yongming, <i>Vice President of Ningbo Polytechnic</i></p> <p><b>Case 4:</b> Topic: Prof. Elyjoy Micheni, <i>Deputy Principal, Tom Mboya University College, Kenya</i></p>

12.00 – 12.50	<p><b>PANEL DISCUSSION</b></p> <p><b>Moderator:</b> Prof. David Essumang, <i>Vice-Chancellor, Koforidua Technical University</i> Topic: <i>Matching Curricula with Labour Market Needs</i></p> <ol style="list-style-type: none"> <li>1. Dr. Engr. I.A. Abdul, <i>Rector, Yaba Technology, Nigeria</i></li> <li>2. Mr. Xiong Xi, <i>Vice President of Chengdu Aeronautic Polytechnic</i> Topic: <i>Promoting School-Industry Collaboration</i></li> <li>1. Prof. Rev. Eshun, <i>Vice Chancellor, Takoradi Technical University, Ghana &amp; ATUPA Representative of Technical Universities</i></li> <li>2. Mr. Zhang Jin, <i>President of Chongqing Vocational Institute of Engineering</i></li> </ol>
12.50 – 13.00	<b>Group Photo</b>
13.00 – 14.00	<b>Lunch</b>

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## TUESDAY, AUGUST 29, 2023

07:30 – 08:30	Registration
08:30 – 09:00	Housekeeping
09:00 – 11:00	<p><b>OPENING PLENARY</b></p> <p><b>Venue:</b> <i>Main Hall</i></p> <p><b>Moderator:</b> <i>Prof. Osei-Wusu Achaw - Vice-Chancellor, Kumasi Technical University</i></p> <ul style="list-style-type: none"> <li>- Welcome address by <b>Prof. Ben Q. Honyenuga</b>, <i>Chairman, Local Organising Committee &amp; Vice Chancellor, Ho Technical University, Ghana</i></li> <li>- Brief cultural dance entertainment</li> <li>- Address by <b>Jahou Samba Faal (Dr. Hc)</b>, <i>ATUPA Secretary General</i></li> <li>- Address by <b>Mr. Yu Yunfeng</b>, <i>Secretary General, China Education Association for International Exchange, CEAIE</i></li> <li>- Address by <b>Prof. Laila Abubacar</b>, <i>ATUPA Executive Board Chairperson &amp; Vice Chancellor Technical University of Mombasa, Kenya</i></li> <li>- Remarks by <b>Professor Mohammed Belhocine</b> – <i>Commissioner, Education, Science, Technology and Innovation (ESTI), African Union Commission Addis Ababa, Ethiopia</i></li> <li>- Welcome statement by <b>Hon. Henry Quartey</b>, <i>Greater Accra Regional Minister</i></li> <li>- Address and Conference Official Opening by the Chief Guest, <b>Hon. Dr. Yaw Osei Adutwum</b>, <i>Minister for Education, Ministry of Education, Ghana</i></li> <li>- Conferment of ATUPA 2023 Awards of Excellence for Development in Africa</li> <li>- Group Photo</li> </ul>
11:00 – 11:30	<b>Health Break</b>
11:30 – 12:15	<p><b>PRESENTATION of THE AWARD TO ATUPA-STARTUP AFRICA INNOVATION OLYMPIADS™ for TVETS WINNERS</b></p> <p><b>Venue:</b> <i>Main Hall</i></p> <p><b>Moderator:</b> <i>Erastus Mong'are, HSC – President and CEO, Startup Africa</i></p>

12:15 – 13:00	<p><b>KEYNOTE PRESENTATIONS 1</b></p> <p><b>Venue:</b> <i>Main Hall</i></p> <p><b>Moderator:</b> <i>Prof. Abass Braimah, Vice-Chancellor, Tamale Technical University</i></p> <p><b>Rapporteurs:</b></p> <ol style="list-style-type: none"> <li>1. Dr. Jennifer E. Adalety - <i>Senior Lecturer Department of Accounting and Finance, HTU Business School, Ghana.</i></li> <li>2. Dr Tobius T. Shumba – <i>Chemistry Lecturer &amp; Researcher, Harare Polytechnic, Zimbabwe</i></li> </ol> <p><b>Speakers:</b></p> <ol style="list-style-type: none"> <li>1. Dr. Fred Kyei Asamoah - <i>Director General of Commission for Technical and Vocational Educational and Training, CTVET, Ghana,</i></li> <li>2. Prof. Mohammed Salifu - <i>Director General of Ghana Tertiary Education Commission, GTEC –</i></li> </ol> <p><b>TOPIC: The road map for change, prospects and challenges</b></p>
13:00 – 14:00	<b>Lunch</b>
14.00 – 15.00	<p><b>SPECIAL SESSION ON WITED IN GHANA</b></p> <p><b>Venue:</b> <i>Main Hall</i></p> <p>Agenda: <i>Country WITED Chapter</i></p> <p><b>Moderator:</b> <b>Prof. Elyjoy Micheni</b> - <i>Deputy Principal, Tom Mboya University College, Kenya</i></p> <p><b>Speakers:</b></p> <ol style="list-style-type: none"> <li>1. Ing. Prof. Hamidatu S. Darimani - <i>Associate Professor, Dr. Hilla Limann Technical University, Ghana</i></li> <li>2. Ms. Jacqueline Mugo, EBS, MBS, OGW - <i>Executive Director &amp; CEO, Federation of Kenya Employers(FKE)</i></li> <li>3. Prof. (Mrs.) Smile Dzisi - <i>(Associate Professor - Entrepreneurship and Innovation) Chief Consultant, JMB Consult, Koforidua - Eastern Region, Ghana</i></li> <li>4. Dr. Mrs. Emeagi, Ijeoma - <i>Head of department at Federal Polytechnic Nekede Owerri, Imo Nigeria</i></li> </ol>
15.00 – 16.00	<p><b>KEYNOTE PRESENTATIONS 2</b></p> <p><b>Venue:</b> <i>Main Hall</i></p> <p><b>Moderator:</b> <i>Prof. Kwadwo Adinkrah-Appiah – Vice-Chancellor, Sunyani Technical</i></p> <p><b>Rapporteurs:</b></p> <ol style="list-style-type: none"> <li>1. Ing. Prof. (Mrs.) Abena Obiri-Yeboah - <i>Director, Planning and Quality Assurance, Associate Professor, Civil Engineering Department Kumasi Technical University, Ghana</i></li> <li>2. Dr Julius Murumba – <i>Senior Lecturer, Department of Management Science and Technology, Technical University of Kenya</i></li> </ol> <p><b>Speakers:</b></p> <ol style="list-style-type: none"> <li>1. Seija Mahlamäki-Kultanen <b>**VIRTUAL**</b> - <i>Dean of HAMK School of Professional Teacher Education, HAMK</i></li> <li>2. HE. Dr. Erick Mutai, <i>Governor Kericho County and the position at the council of Governors. Chair Education Committee council of Governors.</i></li> </ol> <p><b>TOPIC: The Role of devolved units in the realization of creativity and innovation through incubation of skill in VTC</b></p> <ol style="list-style-type: none"> <li>3. Dr. Cosam Joseph - <i>East Africa Skills for Transformation and Regional Integration Project (EASTRIP) , Uganda</i></li> </ol>
16:00 – 16:30	<b>Health Break</b>

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WEDNESDAY, AUGUST 30th, 2023

07:30 – 08:00	Registration
08:00 – 08:30	Housekeeping

08:30 – 09:00	<p><b>Recap of Day 1 by Chief Rapporteur, Dr. Christopher K. Amehoe, Registrar, Ho Technical University</b></p> <p><b>Venue:</b> <i>Main Hall</i></p>
09:00 – 10:30	<p><b>KEYNOTE PRESENTATIONS 3</b></p> <p><b>Venue:</b> <i>Main Hall</i></p> <p><b>Moderator:</b> <i>Prof. Elias N. K. Sowley, Vice-Chancellor, DHL Technical University</i></p> <p><b>Rapporteurs:</b></p> <ol style="list-style-type: none"> <li>1. Dr. Jennifer E. Adalety - <i>Senior Lecturer Department of Accounting and Finance, HTU Business School, Ghana.</i></li> <li>2. Dr Julius Murumba – <i>Senior Lecturer, Department of Management Science and Technology, Technical University of Kenya</i></li> <li>3. Dr Tobius T. Shumba – <i>Chemistry Lecturer &amp; Researcher, Harare Polytechnic, Zimbabwe</i></li> </ol> <p><b>Speakers:</b></p> <ol style="list-style-type: none"> <li>1. Ms. Jacqueline Mugo, EBS, MBS, OGW - <i>Executive Director &amp; CEO, Federation of Kenya Employers(FKE)</i></li> <li>2. Chigozie Emmanuel Okonkwo – <i>Department of Education, Science, Technology and Innovation, AUC. – A presentation on the Digital Education Strategy and its Prospects.</i></li> <li>3. Ronald S.J. Tuninga, <i>Vice President and MD Europe, Middle East and AfricaAACSB International - <b>How Business Schools can cooperate with Engineering schools/faculties</b></i></li> <li>4. Prof. Keolebogile Motaung <b>**VIRTUAL**</b>, <i>Director, Technology Transfer &amp; Innovation, Durban University of Technology, South Africa</i></li> </ol>
10:30 – 11:00	<p><b>Health Break</b></p>
11:00 – 13:00	<p><b>PANEL DISCUSSION</b></p> <p><b>Venue:</b> <i>Main Hall</i></p> <p>TOPIC: <i>Advancing economic resilience through digitization and intra-regional TVET ecosystems</i></p> <p>Main Presentation: <i>Pan-African Initiative for the Digital Transformation of TVET and Skills Development Systems in Africa (PAI).</i></p> <p><b>Session Chair:</b> <i>Chigozie Emmanuel Okonkwo- Department of Education, Science, Technology and Innovation, AUC</i></p> <p><b>Rapporteurs:</b></p> <ol style="list-style-type: none"> <li>1. Dr. Jennifer E. Adalety - <i>Senior Lecturer Department of Accounting and Finance, HTU Business School, Ghana.</i></li> <li>2. Dr Julius Murumba – <i>Senior Lecturer, Department of Management Science and Technology, Technical University of Kenya</i></li> <li>3. Dr Tobius T. Shumba – <i>Chemistry Lecturer &amp; Researcher, Harare Polytechnic, Zimbabwe</i></li> </ol> <p><b>Panelists:</b></p> <ol style="list-style-type: none"> <li>1. Lena Watt Diop - <i>Programme Specialist, Organisation Internationale de la Francophonie (IFEF)</i></li> <li>2. José Edmond Meku Fotso - <i>Programme Officer, UNESCO</i></li> <li>3. Keiko Takei - <i>Chief Education Analyst, AfDB</i></li> <li>4. Asher Mutijima - <i>ICT &amp; Multimedia Trades Specialist, Rwanda TVET Board</i></li> <li>5. Hamidou Diallo - <i>“Directeur National Du Numérique”, Ministry of TVET, Republic of Guinee</i></li> <li>6. Ms. Melanie Hinderer – <i>Advisor, Agri-Business Facility for Africa (ABF)</i></li> <li>7. Dr. Ozioma Ikonne – <i>Deputy Director, Institute of Innovation and Entrepreneurship, University of Applied Science, Engineering and Technology (USET), The Gambia</i></li> </ol>
13:00 – 14:00	<p><b>Lunch</b></p>

<p>14.00 – 16.00  </p>	<p><b>PARALLEL TECHNICAL SESSION 1</b></p> <p><b>Technical Session 1A:</b> Advancing economic resilience through digitization and intra-regional TVET ecosystems</p> <p><b>Venue:</b> <i>Committee Hall 1</i></p> <p><b>Session Chair:</b> Rev. Prof. John Frank Eshun, <i>Vice-Chancellor, Takoradi Technical University &amp; ATUPA Representative of Technical Universities</i></p> <p><b>Rapporteur: 1.</b> Mr. Samuel Ankama Obour, <i>Registrar, Sunyani Tech. University</i></p> <p><b>Rapporteur: 2.</b> Mr. Vitus Songotuah, <i>Registrar, DHL Tech. University</i></p> <ol style="list-style-type: none"> <li>i. Statistical Analysis of the Role of Technical and Vocational Education Training in Nigeria's Sustainable Economic Development - <i>Ajibode, I.A. and Sikiru, O.A.</i></li> <li>ii. Technical, Vocational Education and Training (TVET) for Skill Mobility and Resilient Economy in Osun State, Nigeria. - <i>Olutayo Samson Abogan</i></li> <li>iii. Advancing Economic resilience through circular economy based on TVET model - <i>Oyelekan Azeez Akanni, Adebayo Idowu Tosin</i></li> <li>iv. Evaluating the meditating role of circular economy in green management towards sustainable development in Nigeria - <i>Lawal Margret Oluseyi, Ayelaagbe Nimota Abiodun</i></li> <li>v. Realignment of TVET Accounting Curriculum to Reflect the Current Needs of the Industry in Africa - <i>CPA Felex Otieno Odera</i></li> <li>vi. Implementation of A Unique Blended Learning Model for Quality Skills Training in Nigeria - <i>Adebari Fasasi Adebayo, Alade Amos, Kukoyi Sheriff</i></li> </ol>
	<p><b>Technical Session 1B:</b> Promoting circular-economy TVET models in post-pandemic Africa</p> <p><b>Venue:</b> <i>Meeting Room I</i></p> <p><b>Session Chair:</b> Dr. Eng. Tafadzwa Mudondo - <i>Principal, Harare Polytechnic, Zimbabwe &amp; ATUPA Vice Chairman (Southern-Central Region)</i></p> <p><b>Rapporteur: 1.</b> Dr. Moses Maclean Abnory, <i>Registrar, Takoradi Technical University</i></p> <p><b>Rapporteur: 2.</b> Alhaji Yakubu Iddrisu, <i>Registrar, Tamale Tech. University</i></p> <ol style="list-style-type: none"> <li>i. Challenges and opportunities of teaching agro-courses and promoting agro-industries through e-learning in a post-pandemic era for sustainable economic growth in Africa - <i>Ugochukwu-Ibe Ijeoma Mary, Luke-Odoemena Ijeoma, Nwachukwu Catherine Ada Ngozi</i></li> <li>ii. Recycling of Cement Kiln Dust as a Substitute for Limestone in Cement Making Circular Economy - <i>Masawi D, Manyere S, Chidakwa S</i></li> <li>iii. Water Collection Open Channel for Smart Agriculture - <i>Philiph Karobia Marangu, Mutembei A. Kigige</i></li> <li>iv. Organic/Natural Ways of Managing Climate Change - <i>Sigauke Judith (Mrs)</i></li> <li>v. Carbon Credit as A Mechanism for Promoting a Green Environment In Thika, Kenya - <i>Patrick Maina Irungu</i></li> <li>vi. Promoting Circular-Economy education in TVET models in post-pandemic Africa- Lesotho context - <i>Seipati Evodia Mahao</i></li> </ol>

	<p><b>Technical Session 1C: Developing TVET entrepreneurs through STEM competencies</b></p> <p><b>Venue:</b> Meeting Room II</p> <p><b>Session Chair:</b> Pr. Mouhamed Fadel Niang - <i>Coordonnateur du Réseau des ISEP du Sénégal Institut supérieur d'Enseignement professionnel &amp; ATUPA Vice Chairperson (Western Region)</i></p> <p><b>Rapporteur: 1.</b> Dr. Nii Annang Mensah-Livingstone, <i>Registrar, Koforidua Tech. University</i></p> <p><b>Rapporteur: 2.</b> Mr. Ebenezer Kofi Boakye, <i>Registrar, Kumasi Tech. University</i></p> <ol style="list-style-type: none"> <li>i. The Prospect of Enhancing Food Security in Nigeria Through STEM-Based Training Using Embedded Systems and Robotics Knowledge: Case of The Federal Polytechnic, Ilaro, Innovation Centre. - <i>Engr. Ogunyinka, Olawale Ige Olayinka, Hopewell Olaoluwa</i></li> <li>ii. The TVET Innovations Driven Growth of Nutraceutical Industry - A Case Study of Food Formulation for Management of Chronic Diseases - <i>Peter Lusi</i></li> <li>iii. The Influence of Stem Education On Female TVET Students Entrepreneurial Ambitions: A Case Study of P.C. Kinyanjui Technical Training Institute, Nairobi, Kenya - <i>Nancy Wangui Njui, Arnet Nyawira Kitavi, Eunice Muthoni Ngugi</i></li> <li>iv. Acute and Subchronic Toxicity Assessment of Conventional Soxhlet Cymbopogon Citratus Leaves Extracts in Sprague Dawley Rats - <i>Jacob Apibilla Ayembilla, Abdul Raouf Khalid, Sharif Buari Abubakari, Abdul Rashid Adams, Felix Abekah Botchway, Stephen Antwi, Phyllis Naa Yarley Otu, Michael Appiah, George Osei-Adjei, Owen Kwame Kottob, Peace Abiabenu-Williams, Olga Quasie</i></li> <li>v. Knowledge of Entrepreneurship Education Among Science Technical and Vocational Teachers A Panacea for Economic Development In Nigeria - <i>Habila Nuhu, Sati Kirka Bakji</i></li> <li>vi. Exploring Emerging Trends and Technologies in Applied Chemistry Education for TVET Entrepreneurship - <i>Emeagi Henry, Achilike John Bosco, Gideon Nnawuihe, Ijeoma Ndu-Osuoji</i></li> </ol>
	<p><b>Technical Session 1D: Strengthening TVET to Meet Industry Needs in the Changing World of Work</b></p> <p><b>Venue:</b> Meeting Room III</p> <p><b>Session Chair:</b> Dr. Samuel B. Kalagbor, <i>Rector, Captain Elechi Amadi Polytechnic &amp; COHEADS Chairperson &amp; Country Representative of Nigeria</i></p> <p><b>Rapporteur: 1.</b> Zangu-Rana Ibrahim D. Yakubu, <i>Registrar, Bolga Tech. University</i></p> <p><b>Rapporteur: 2.</b> Dr. Francis Narh Akrono, <i>Registrar, Cape Coast Tech. University</i></p> <ol style="list-style-type: none"> <li>i. Strengthening TVET To Meet Industry Needs Through Adopting Agility and Software Metrics for Information Systems Measurement - <i>Edegebe, Glory Nosawaru (PhD), Onianwa, Charles Uche (PhD)</i></li> <li>ii. Development of high protein-energy flour using home-grown small grains and legumes: an analysis of cowpea-pearl millet blend - <i>Lyndah Chiwazi Mujombiza, Prisca Rashidzai, Petrunia Sithole</i></li> <li>iii. Highway Road/Pavement electricity generation - <i>David Makate</i></li> <li>iv. The Management of Technical and Vocational Education Skills Development (TVESD) courses: a case study of Bulawayo and Gweru Polytechnics in Zimbabwe. - <i>Dr Schabwera</i></li> <li>v. “Enhancing work-based learning to bridge employability skills and connection world of work: Lessons from National Instructors’ college Abilonino in Uganda” - <i>Rita Rhoda Akello</i></li> <li>vi. Strengthening TVET to Meet Industries Needs in the Changing World of Work through Proficiency in Language Skills: A Case for Visual Literacy - <i>Dr. Winifred Ngozi Nwachukwu, Dr. Mrs. Ijeoma Ibe, Mrs Ifeoma Chikamma Okeke, Happiness Chidinma Anthony-Ikpe</i></li> <li>vii. Design of Generalized Gamma X and S Control Charts for Monitoring Industrial Process - <i>Aako, Olubisi. L., Are, Stephen. O. and Ojo, Gabriel. O.</i></li> <li>viii. Engaging public-private partnership as a strategy for strengthening TVET to meet work place demands. - <i>Egebe Justina Funke, Alawaye Anthonia, Adeife Oyebola</i></li> </ol>
<p>16:00 – 16:30  </p>	<p><b>Health Break</b></p>

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## THURSDAY, AUGUST 31ST, 2023

07:30 – 08:00	Registration
08:00 – 08:30	Housekeeping
08:30 – 09:00	<b>Recap of Day 2 by Chief Rapporteur</b> , Dr. Christopher K. Amehoe, Registrar, Ho Technical University <b>Venue:</b> <i>Main Hall</i>
09:00 – 10:30	<b>PARALLEL TECHNICAL SESSION 2</b>  <b>Technical Session 2A:</b> Harnessing the scaling potentials of gender equality in building integrative TVET concepts in Africa <b>Venue:</b> <i>Committee Hall 1</i> <b>Session Chair:</b> Mrs P. Watema - <i>Principal, Mutare Polytechnic, Zimbabwe &amp; ATUPA Regional Gender Representative, (Southern-Central Region)</i> <b>Rapporteur: 1.</b> Mr. Samuel Ankama Obour, <i>Registrar, Sunyani Tech. University</i> <b>Rapporteur: 2.</b> Mr. Vitus Songotuah, <i>Registrar, DHL Tech. University</i> <ol style="list-style-type: none"> <li>i. Mainstreaming TVET for Skills Mobility and Resilient Economies in Africa - <i>Magadzire Runyararo</i></li> <li>ii. Relative effectiveness of financial inclusion, technical and vocational education and training on women entrepreneurship development in selected Africa Countries - <i>Bamidele Comfort Olaitan</i></li> <li>iii. Role of Social Support in Promoting Self-Efficacy and Persistence among Female STEM Students in Thika Technical Training Institute, Kenya - <i>Grace Gakinya</i></li> <li>iv. Gender Participation in Technical Training Institutions: An Assessment of Ol'lessos Technical Training Institutions Case - <i>Silas O. Awuor Wesley K. Yegon</i></li> <li>v. Gender Intelligence In TVET Towards Building Inclusive Growth - <i>OLABIMTAN Rashidat Olayemi &amp; ODUBANJO Abimbola Omolade</i></li> <li>vi. Harnessing Gender Equality Gaps in Building TVET Intergrative Concepts. The Case of Africa. - <i>Stephen Ochieng Otieno</i></li> </ol>
	<b>Technical Session 2B:</b> Mainstreaming inclusivity and Assistive Technologies in TVET programming in Africa <b>Venue:</b> <i>Meeting Room I</i> <b>Session Chair:</b> Dr. Ozioma Ikonne – <i>Deputy Director, Institute of Innovation and Entrepreneurship, University of Applied Science, Engineering and Technology (USET), The Gambia</i> <b>Rapporteur: 1.</b> Dr. Moses Maclean Abnory, <i>Registrar, Takoradi Tech. University</i> <b>Rapporteur: 2.</b> Alhaji Yakubu Iddrisu, <i>Registrar, Tamale Tech. University</i> <ol style="list-style-type: none"> <li>i. TVET Programs and Assistive Technologies In Agriculture: A Tool for Enhancing The Productivity of Disabled Rural Farmers In Nigeria - <i>Veronica Yilret Nanle, Alice Bernard Benschak, Hannatu Lucius Datukun</i></li> <li>ii. Mainstreaming TVET for Employability Skills Development of Business Education Undergraduates In Tertiary Institutions In Rivers State As A Solution To Social Economic Challenges In Nigeria. - <i>Philip Festus Ukata</i></li> <li>iii. Mainstreaming TVET for Skills Development, Mobility and Resilient Economies In Africa - <i>Agricola Bota</i></li> <li>iv. Impact of Students' Loyalty Antecedents Among Technical and Vocational Education and Training Institutions - <i>Dr. Muhammad Mujtaba Abubakar</i></li> </ol>



	<p><b>Technical Session 2C: Scaling up Technological Innovations in TVET Institutions</b></p> <p><b>Venue:</b> <i>Meeting Room II</i></p> <p><b>Session Chair:</b> Mrs. Glory Mutungi , <i>Principal, Nairobi Technical Training Institute, Kenya &amp; Chairperson, ATUPA Projects Committee</i></p> <p><b>Rapporteur: 1.</b> Dr. Nii Annang Mensah-Livingstone, <i>Registrar, Koforidua Tech. University</i></p> <p><b>Rapporteur: 2.</b> Mr. Ebenezer Kofi Boakye, <i>Registrar, Kumasi Tech. University</i></p> <ol style="list-style-type: none"> <li>i. Scaling-Up Technology Innovations in TVET Institutions in Nigeria - <i>Tamunoene Goddysen Abia</i></li> <li>ii. The Application, and Effectiveness of Indigenous and more accessible water purifiers (Engineered nano-composites Biochar) - <i>Tobias T. Shumba, Bridgette V. Musamirapamwe</i></li> <li>iii. Synthesis of Nano Zeolite from Coal Fly Ash for Nano Fertilizer Production - <i>Masawi Damascus, Manyere Solomon, Kaseke Sydney, Ruziwa Deborah</i></li> <li>iv. Production of Activated Carbon from Marula Nutshell for Gold Adsorption from Cyanide Leach Solution - <i>Masawi Damascus, Manyere Solomon, Mumba Edson, Ruziwa Deborah</i></li> <li>v. Impact of Literacy Skill On The Use of E-Library Resources In Academic Performance of Some Selected Institutions In Ogun State - <i>Adedotun A. Olasumbo, Sodeinde A. Adedamola, Fatuase O. Adesola, Olajuwon-Salami E. Oluwakemi, Adedayo A. Funmi</i></li> <li>vi. Institutionalizing Digital Education Innovation Culture In Tertiary Institutions To Enhance Acquisition of Employability Skills By TVET Students In South East, Nigeria - <i>Nedum-Ogbede Patricia Oluchi, Okoronkwo Rosemary , Enwere Ifeoma-Meziem Victoria</i></li> </ol>
	<p><b>Technical Session 2D: Strengthening TVET to Meet Industry Needs in the Changing World of Work</b></p> <p><b>Venue:</b> <i>Meeting Room III</i></p> <p><b>Session Chair:</b> Dr. Joseph M. Baya, <i>Technical University of Mombasa, Kenya</i></p> <p><b>Rapporteur: 1.</b> Zangu-Rana Ibrahim D. Yakubu , <i>Registrar, Bolga Tech. University</i></p> <p><b>Rapporteur: 2.</b> Dr. Francis Narh Akrono, <i>Registrar, Cape Coast Tech. University</i></p> <ol style="list-style-type: none"> <li>i. Repositioning African Technical and Vocational Education and Training Ecosystem Through Resilient and Sustainable Heritage TVET Policy Development: The Case of Zimbabwe - <i>Dr.Eng. Tafadzwa Mudondo &amp; Mrs. Sinikiwe Mudondo</i></li> <li>ii. Strengthening TVET to meet industry needs in the changing world of work; A case of Lerotholi Polytechnic - <i>Makibiti Moeketsi</i></li> <li>iii. Vocational and Technical Education as a Sustainable Approach to National Development: The Nigerian Perspective - <i>Dr. Lukeman Adegoke Agbabiaka , &amp; Engr. Dr. Timine Owei Suoware</i></li> <li>iv. ICT in Vocational Agricultural Education: Panacea for Enhancing Employability of Agricultural Graduates - <i>Jidere Ann Obiageli, Dr Mrs Oparah Chidiebere Chukwuuma, Ndukauba Chidimma M.</i></li> <li>v. The Influence of Strategy Review In TVET Institutions On Graduate Employability In Kenya - <i>Dr Riungu Festus Kinyua</i></li> <li>vi. Strengthening TVET To Meet Industry Needs In The Changing World of Work: Implications for Counselling - <i>Gabriel P. Enamudu, Stella I. Mofunanya, Olufunmilayo A.T. Sotonade &amp; Taiwo O. Omomia</i></li> <li>vii. Enhancing Skill Development of Technical and Vocational Education and Training (TVET) Students through Effective School-Industry Collaboration in South-East Nigeria - <i>Onuoha Stella Nkem, Amadi, Regina Elechi</i></li> </ol>
<p>10.30 – 11.00  </p>	<p><b>Health Break</b></p>

11.00– 13.00	<p><b>PARALLEL TECHNICAL SESSION 3</b></p> <p><b>Technical Session 3A: Developing TVET entrepreneurs through STEM competencies</b></p> <p><b>Venue:</b> <i>Committee Hall 1</i></p> <p><b>Session Chair:</b> Dr. Stella Awoh Mofunaya - <i>Rector, Reedemers' Polytechnic, Nigeria &amp; Regional Administrative Officer (Western Region)</i></p> <p><b>Rapporteur: 1.</b> Mr. Samuel Ankama Obour, <i>Registrar, Sunyani Tech. University</i></p> <p><b>Rapporteur: 2.</b> Mr. Vitus Songotuah, <i>Registrar, DHL Tech. University</i></p> <ol style="list-style-type: none"> <li>i. Funding: A Bane to Mainstreaming TVET for Skill Development, Mobility and Resilient Economies in Nigeria - <i>Kolade Akinpelu Ayobami, Bamidele Comfort Olaitan</i></li> <li>ii. Assessment of proximate and mineral content of polynasian arrow root (<i>Tecca leontopetatooides</i>) in Garkawa Plateau State Nigeria as a means of Economic Development - <i>Danjuma Gwamzhi, Dangot G.G. &amp; Dayok O.</i></li> <li>iii. Entrepreneurship Education, STEM Competencies and TVET Entrepreneurial Intentions among Female Estate Management Students of Polytechnics: Systematic and Conceptual Perspectives - <i>Hannatu Lucuis Datukun, Veronica Yilret Nanle, Alice Bernard Benschak, Yusuf L. Gambo, &amp; Racheal Titus Gopep</i></li> <li>iv. Poverty Alleviation Through Stem Entrepreneurial Competencies In TVET Institutions - <i>Ayodele Oduwole, Bridget Vaikosen PhD</i></li> <li>v. Snail and eggshells quicklime production using factorial analysis - <i>Salisu nuhu</i></li> <li>vi. How Stem Competencies Can Contribute to Successful Venture for TVET - <i>Mamasbeane Ntsonyana</i></li> <li>vii. Using Constructivist Approach for Advancing Skills In Nigeria's TVET for Optimum Production in A Globalised World - <i>Nwaizuzu-Daniel J.C., Arimanwa J.I., Nnadi F.N., Nwaizuzu D.O. &amp; Ibeneme W.U.</i></li> </ol>
	<p><b>Technical Session 3B: Scaling Up Technological Innovations in Technical Institutions</b></p> <p><b>Venue:</b> <i>Meeting Room I</i></p> <p><b>Session Chair:</b> Mr. David M. Mwangi - <i>Principal, Nyeri National Polytechnic, Kenya &amp; ATUPA Country Representative of Kenya</i></p> <p><b>Rapporteur: 1.</b> Dr. Moses Maclean Abnory, <i>Registrar, Takoradi Tech. University</i></p> <p><b>Rapporteur: 2.</b> Alhaji Yakubu Iddrisu, <i>Registrar, Tamale Tech. University</i></p> <ol style="list-style-type: none"> <li>i. Multimedia Learning for Youth Empowerment In A Cross Cultural African School - <i>Dr Mrs Oparah' Chidiebere Chukwuma, Jidere Ann Obiageli, Onyeama Ugonma Chibuzor</i></li> <li>ii. Challenges In Promoting Technology Transfer In TVET Institutions: Case of A Selected Polytechnic In Zimbabwe: - <i>Jabulani Jonas</i></li> <li>iii. ICT-Enabled Pedagogical Innovations In TVET Institutions: Catalyzing The Scaling Up of Technological Innovations In Nigeria - <i>Dr Mrs Emeagi Ijeoma Nee Agwamba , Dr Regina Amadi , Emeagi Henry , Dr Mrs Basilia Igbokwe, Onyemechara Idong-Esit Comfort</i></li> <li>iv. Financing TVET Institutions To Enhance Labour Employability In The Agricultural Sector - <i>Kamal Adekunle Adewunmi</i></li> <li>v. Scalling Up Technological Innovations In TVET Institutions In Nigeria - <i>Ifeolu, Adepeju Anike , Adeyemi, Deborah Adefunke , Adeife, Oyebola Taiye</i></li> <li>vi. Incorporating Modern Water Sanitation and Hygiene Technologies In Technical Training Institutes: A Focus On Technical Training Colleges In Busia Kenya - <i>Caleb Omondi Ondiek, Mr. Calestus Wanjala.</i></li> </ol>

	<p><b>Technical Session 3C: Strengthening TVET to Meet Industry Needs in the Changing World of Work</b></p> <p><b>Venue:</b> Meeting Room II</p> <p><b>Session Chair:</b> Prof. Omondi Oketch, <i>Dean of Students &amp; Associate Professor of Linguistics, Technical University of Kenya</i></p> <p><b>Rapporteur: 1.</b> Dr. Nii Annang Mensah-Livingstone, <i>Registrar, Koforidua Tech. University</i></p> <p><b>Rapporteur: 2.</b> Mr. Ebenezer Kofi Boakye, <i>Registrar, Kumasi Tech. University</i></p> <ol style="list-style-type: none"> <li>i. The Key and Relevant Skill-Sets for Sustainable Development of the Agro-Industry In A Changing Global Economy - <i>Okogbue, Blessing Chidinma, Agbabiaka, Lukman Adegoke</i></li> <li>ii. Strengthening TVET To Meet Industry Needs In The Changing World of Work: Experience From Nigeria - <i>Dr. Adegoke, Samson, Akinbamide Omobayo</i></li> <li>iii. Mediating effect of Technical and Vocational Education on Sustainable job creation in Nigeria - <i>Mukail Aremu Akinde (Ph.D), Yusuf Adebola Bako (Ph.D), Oluwaseun John Olopade</i></li> <li>iv. Unlocking food potentials of African resilience crops (acha, Bambara and orange-fleshed sweet potato): skill development opportunities in biscuits production for the youths - <i>Olalekan J. Adebowale</i></li> <li>v. Revitalizing Technical Vocational Entrepreneurial Training (TVET) through soft skills among Nigeria Graduates for Global Employability - <i>ADEWOYE Olugbenga Adewale</i></li> <li>vi. Re-positioning TVET Institutions to Meet the Dynamics of Industry in Kenya: Analysis of Perceived Benefits, Viability and Way Forward - <i>John H Gekonde</i></li> <li>vii. Developing Diversified Action Plans to Promote Quality TVET Programme Towards Empowering Youth With Industry-Ready Skills for Employment In South-East, Nigeria - <i>Enwere Ifeoma-Meziem Victoria, Nedum-Ogbede Patricia Oluchi, Okoronkwo Rosemary, Okore Ada Mary</i></li> <li>viii. Strengthening TVET to meet Industry Needs in the Changing World of Work - <i>Wilson Takavadii Nyamanhindi</i></li> </ol>
	<p><b>Technical Session 3D: Mainstreaming inclusivity and Assistive Technologies in TVET programming in Africa</b></p> <p><b>Venue:</b> Meeting Room III</p> <p><b>Session Chair:</b> Prof. Elyjoy Micheni - <i>Deputy Principal, Tom Mboya University College, Kenya</i></p> <p><b>Rapporteur: 1.</b> Zangu-Rana Ibrahim D. Yakubu, <i>Registrar, Bolga Tech. University</i></p> <p><b>Rapporteur: 2.</b> Dr. Francis Narh Akrono, <i>Registrar, Cape Coast Tech. University</i></p> <ol style="list-style-type: none"> <li>i. Adoption of Universal Design for Learning and Assistive Technology for The Inclusion of Learners With Disabilities In TVET - <i>Dr. Odeniyi, Olufemi Ayodeji</i></li> <li>ii. Comparative Studies On The Needs and Development of Autotronic Maintenance Training Modules for The Training of Automobile Technicians In North Western Region, Nigeria - <i>Muhammad Shuaibu Birniwa</i></li> <li>iii. Looking Beyond the Norm: Does Emotional Intelligence Influence Corporate Entrepreneurship Competencies of Employees In Smes In Ghana - <i>Prof. Abigail Padi</i></li> <li>iv. Including The Excluded: The Use of Assistive Technologies In Teaching Technical and Vocational Education for Youths With Hearing Impairments In Southwestern Nigeria - <i>Kathleen Chinyere Phillips</i></li> <li>v. Challenges of Mainstreaming Inclusivity and Assistive Technologies In TVET Programming In Africa - A Case Study of Kenya. - <i>Andrew Juma Khisa</i></li> </ol>
13.00 – 14.00	<b>Lunch</b>
14.00 – 15.00	<p><b>2023 GENERAL ASSEMBLY OF HEADS OF ATUPA MEMBER INSTITUTIONS</b></p> <p><b>&amp; LAUNCH OF ATUPA STRATEGIC PLAN 2024 - 2027</b></p> <p><b>Venue:</b> Main Hall</p>
15.00 – 15.30	<p><b>CONFERENCE COMMUNIQUE BY CHIEF RAPPORTEUR</b></p> <p><b>Venue:</b> Main Hall</p> <p><i>Chief Rapporteur: Dr. Christopher K. Amehoe, Registrar, Ho Tech. University</i></p>

15:30 – 16.30	<b>CLOSING CEREMONY - Closing Speeches / Remarks / Awards</b>  <b>Moderator:</b> Prof. Samuel Alnaa, <i>Vice-Chancellor, Bolgatanga Technical University &amp; Chairman of VCTU-G</i> <b>Speakers:</b> <ol style="list-style-type: none"> <li>1. Prof. Ben Q. Honyenuga, <i>LOC Chairman &amp; Vice-Chancellor of Ho Technical University</i></li> <li>2. Jahou Samba Faal (Dr. Hc), <i>ATUPA Secretary General</i></li> <li>3. Prof. Laila Abubakar, <i>ATUPA Executive Board Chairperson &amp; Vice Chancellor Technical University of Mombasa, Kenya</i></li> <li>4. Prof. Samuel E. Alnaa - <i>Chairman of VCTU-G &amp; VC, Bolga Technical University</i></li> </ol>
16.30 – 17.00	<b>Health Break</b>
19:00 +	<b>GALA DINNER</b>

## FRIDAY, SEPTEMBER 1st, 2023

| [Benchmarking Trip to a TVET Institution](#)| [Excursions](#)

## SATURDAY, SEPTEMBER 2ND, 2023

| [Departures](#)

# LOCAL ORGANISING COMMITTEE



**Prof. Ben Q. Honyenuga**  
*Chairperson, Local Organizing Committee (LOC) & Vice Chancellor, Ho Technical University*



**Rev. Prof. John Frank Eshun**  
*Vice-Chancellor, Takoradi Technical University*



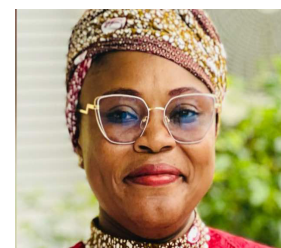
**Prof. Samuel E. Alnaa**  
*Chairman of VCTU-G & Vice-Chancellor, Bolgatanga Technical University*



**Prof. Kwadwo Adinkrah-Appiah**  
*Vice-Chancellor, Sunyani Technical University*



**Prof. Samuel Nii Odai**  
*LOC Member*



**Prof. Hamidatu S. Darimani, DHL**  
*Technical University*



**Prof. Yayra Dzakadzie**  
*Director of Tertiary, Ministry of Education*



**Mr. Frank Owusu Boateng**  
*Director of Finance, Accra Technical University*



**Mr. Paul Ofori Krah**  
*Executive Secretary, VCTU-G*



**Dr. Gorkel Obro-Adibo**  
*LOC Member*



**Prof. Amevi Acakpovi**  
*Ag. VC, Accra Technical University*



**Dr. Sylvia Beatrice Oppong-Mensah**  
*Registrar, Accra Technical University*



**Dr. (Mrs.) Florence Dedzoe-Dzokotoe Plockey**  
*Librarian, Accra Technical University*



**Mr. Samuel Thompson**  
*LOC Member*



**Mr. Magnus D. Akaba**  
*LOC Member*

# NOTES

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**ATUPA Member-countries:**

**Western Region:** The Gambia, Ghana, Nigeria, Senegal and Sierra-Leone

**Eastern Region:** Kenya, Mauritius, Rwanda, Seychelles, Tanzania and Uganda

**Southern Region:** Botswana, Lesotho, Malawi, Namibia, Swaziland, Zambia, Zimbabwe, Republic of South Africa



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*An aerial view of Accra (Source: Amanor Kwaku on Wikipedia, as licensed under the [Creative Commons Attribution-Share Alike 4.0 International](https://creativecommons.org/licenses/by-sa/4.0/) license. This image has not been altered.)*