



Curriculum Vitae

Dr. (Mrs.) Charity Esenam Anor
Department of Integrated Science Education
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Areas of Expertise or Professional Skills:

- Innovative
- Good communication skills
- Ability to take initiative
- Work independently and under pressure
- Good team player
- Science (Chemistry) Educator
- Course manual writing
- Volunteering
- Project coordination

Excellent computer skills in Microsoft Word, Microsoft Excel, PowerPoint, Statistical Package for Social Sciences (SPSS)

Professional Qualification(s)

Rank	Supporting Evidence	Period
Ph.D. (Science Education)	Certificate from University of Education, University of Education, Winneba	2018-2022
M.Sc. Environmental Science (With thesis)	Certificate from Kwame Nkrumah University Science and Technology	2012-2015
B.Ed. Science (Chemistry and Biology)	Certificate from University of Education, Winneba	2007-2011

Three –Year Post-Secondary

Certificate ‘A’ awarded by
University of Cape Coast

2000-2003

Professional Responsibilities

Position	Office/Location	Period
Lecturer	Dept of Integrated Science Educ, UEW	08 / 2022 – date
Research Associate	SACOST	2023
Research Associate	EIRIS	2023
Internship Supervision	Volta Region	2023
Lead Writer; Distance learning	Dept of Integrated Science Educ, UEW	2023
Module - UEW (Chemistry Around Us)		
Internship Supervision	Volta Region	2022
Assistant Lecturer	Dept of Integrated Science Educ, UEW	07 / 2021 – 08 / 2022
Teacher	Swedru Senior High School	09 / 2011 – 06 / 2021
Internship	Ghana Water Company Limited	09 / 2008 -12 / 2008
Teacher	Kwanyako Methodist Primary	09 / 2006 – 09 / 2007
Teacher	Bedeku Basic School	09 / 2003 – 09 / 2006

Education

Qualification/Certificate Obtained	Institution	Period
PhD. Science Education	University of Education, Winneba	2018 – 2022
MSc. Environmental Science (With Thesis)	Kwame Nkrumah University of Science and Technology	2012 – 2015
B.Ed Science	University of Education, Winneba	2007 – 2011
Cert ‘A’ 3-Year PostSec	St. Teresa’s Teacher Training College	2000 – 2003
SSSCE Cert,	Mawuli Senior High School	1997 – 1999

Career History

POSITION / Title	Name of Institution	Date	Responsibilities
Lecturer	University of education	July 2022 to Date	Teaching / Research
Assistant Lecturer	University of Education, Winneba	July 2021 to July 2022	Teaching / Research
Science Teacher	Swedru SHS	2011 – June 2021	Teaching
Internship	Ghana Water Company Limited	2008 (Sept. to Dec.)	Laboratory Analysis
Teacher	Kwanyaku Meth. Primary	2006 – 2007	Teaching
Teacher	Bedeku Basic School	2003-2006	Teaching / SHEP Facilitator

Courses Taught

Course	Level	Period
SCDB 522 - Advanced Analytical Chemistry	Graduate (Med)	2021/2022; 2022/2023 Academic year
SCBD 521 Industrial Chemistry	Graduate (Med)	2021/2022; 2022/2023 Academic year
INS 231- Organic Chemistry	Undergraduate	2021/2022; 2022/2023 Academic year
INS 121- Energy and Energy Transformations	Undergraduate	2021/2022; 2022/2023 Academic year
INS 481- Radioactivity, Nuclear and Atomic Energy	Undergraduate	2022/2023 Academic year

Thesis Supervision

Level	Number	Period
Graduate	5	2023-
Graduate	1	2022/2023
Undergraduate	17	2023 -
Undergraduate	16	2022/2023

Thesis Examined

Level	Number	Period
Graduate	6	2022 – 2023

Publications

A. Book

Anor C. E., Mbage, B., & Alhassan, M. (2023). *Chemistry Around Us Chemistry for BEd*

Distance Learners Unit 1, Course Introduction, Sections 4, 5 and 6, Unit 2 Sections 5 and 6, Unit 5 sections 1, 2 and 3. University of Education, Winneba: CODEL

C. Peer-Reviewed Journal Articles

Anor, C. E., Lundell, J., Hanson, R., & Oppong, E. (2022). Students' engagement in learning by indigenous knowledge-chemistry lesson. *LUMAT*, 10(1). <https://jyx.jyu.fi/handle/123456789/84291>

Anor, C. E., Apetorgbor, A. K., Hanson, R. & Oppong, E. (2022). Bacteriological Quality of

Water Produced at the Kwanyaku Water Treatment Plant in the Agona District of the Central Region
Elixir Applied Chemistry 169 (2022) 56414 – 56416

https://www.elixirpublishers.com/articles/1649417922_ELIXIR2022016892.pdf

Anor, C. E., Apetorgbor, A. K., Hanson, R. & Oppong, E. (2022). Physicochemical Quality of Water Produced at Kwanyaku Water Treatment Plant in the Agona District of the Central Region of Ghana. *Elixir Appl. Chem.* 164 (2022), 56114-56119 https://www.elixirpublishers.com/articles/1662804640_ELIXIR2022066951.pdf

Conferences Proceedings/Articles

Anor, C. E., Oppong, E., & Hanson, R. (2021, November 3-5). Using Indigenous Scientific Knowledge to Teach Chemistry Concepts [Conference presentation]. The 6th International Conference for Women in Science Without Borders, University of Embu, Kenya.

https://wiswbconference.embuni.ac.ke/images/PROCEEDINGS_MAY_30.pdf#page=32.

Professional Development

Name of Conference / workshop / seminar	Location	Presentations	Period
Ghana Career and Migration Fair	University of Professional Studies, Accra	Exploring global opportunities: The Role of Student Associations in Enhancing Cross-Border Educational Collaboration Participant	29/11/2023
Erasmus+ Week in Sub-Saharan Africa	University of Johannesburg, South Africa (Virtual)	Participant	10 th – 12 th /10/2023
ASAF local project on volunteering and capacity building ICWES19	Elmina, Ghana New Zealand (Virtual)	Project Team member 1. Promoting girls' engagement in STEM through a maiden science fair in a community in Ghana 2. Rural girls in STEM education: perceptions, participation and future career Participant	5 th – 6 th /10/2023 4 th -6 th /09/2023
Gordon Research Pre-Conference workshop on Visualization in Science Education	Massachusetts Institute of Technology Cambridge, MA	Participant	14-16/07/2023
Gordon Research Conference workshop on Visualization in Science Education	Bates College, Lewiston, Maine.	1.Students' cognitive engagement through indigenous knowledge to learning about metals 2. Local gin production as an IK learning tool in the study of the concept of distillation	16-21/07/2023

Name of Conference / workshop / seminar	Location	Presentations	Period
International LUMAT Research Symposium	University of Eastern Finland (Virtual)	Out of the Classroom: Unmasking Science in Indigenous Practices	16 /06/ 2023
DAAD Falling Walls Lab, Ghana	University of Ghana, Legon	Breaking the Wall of Unsustainable cooking Fuels	26 / 05/ 2023
SACOST proposal writing workshop	UEW, IERIS Conference Room		7 – 9 /02 / 2023
Centre for Leadership and Diversity - 3rd Annual International Conference	Toronto, Canada (Virtual)	Assessing the Gender Disparity in the Performance of Pre- Service Teachers	14 -15 / 10 / 2022
LASU-ACEITSE – UEW-IERIS Joint Committee workshop on n Global Best Practices in the Teaching and Learning of STEM https://www.uew.edu.gh/news/uewhosts-workshop-global-bestpractices-teaching-stem	University of Education Ghana	Global Best Practices in the Teaching and Learning of the Atom and Acids Bases and Salts	10 – 14 /10 / 2022
Educational Services in Finland	Finland (Virtual)		28 – 29 /10 /2023
Inter-University Conference for Doctoral Studies (IUCDS)	Jophus Anamuah-Mensah Conference Centre, UEW		17 – 19 / 2023

Name of Conference / workshop / seminar	Location	Presentations	Period
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INWES AGM	Online		18 / 12/ 2022
Bridging the Gender Gap	Central Campus, UEW		15 /09/ 2022
1st Annual International Decolonizing Education Conference	Kwame Nkrumah University, Zambia (Virtual)	Developing an Indigenous Knowledge-Chemistry Manual for the Teaching of Chemistry	11-12 / 08 / 2022
Lagoon Resilient Network	University of Education, Winneba		6 / 07 / 2022
Reimagining a STEM Research Culture” project and to celebrate INWES 20th Anniversary	University of Warwick, UK.		20/ 07 / 2022
Conference on reflective teaching	North Assembly Hall, UEW		2022
Digitalisation and higher education – New opportunities and challenges for Africa and Europe. The OBREAL Global Team	Barcelona, Spain (Virtual)		22 / 06 2022

Name of Conference / workshop / seminar	Location	Presentations	Period
	Virtual		28 / 04 / 2022

Science Diplomacy
Training, Organised by
WISWB

1st regional Webinar
INWES ARN Virtual
on Reimagining a
STEM Research

Culture Virtual 23/04/2022
School Leadership OISE Toronto 30 / 03 / 2022

Development &
Preparation Within
the African
Context

Lagoon Resilient University of 4 / 03 / 2022
Network, Derby, UK
(Virtual)

Workshop on Grant University of 02 / 2022
Proposal Writing and Education
funding (DRID)

LICE and WCSNE – London 22-24 / 11/2021
2021

Hybrid Education University of 4 / 11 /2021
(Erasmus Project) Jyvaskyla-
Finland

6th International University of 3-5 / 11 /2021
Conference for Embu, Kenya Using Indigenous
Women in Science (Virtual) Scientific
Without Borders Teach Chemistry
Concepts

Faculty of Science University of Jyvaskyla 14 / 10 / 2021
and Maths Seminar

UTAG Early Career University of 11 / 08 2021
Seminar Education,
Winneba

5th International University of 15/07/2021
Multidisciplinary Education,
Conference for Post Winneba
graduate students

Curriculum Development

Course or instructional material

Four-Year B.Ed. Course Manual (Chemistry

Period

11 / 2022 – 04 / 2023

Around Us) Year 4, Semester 2

UN International Day of Women and Girls in
STEM (Team Member and Chairperson)

10 /02/ 2023

Mentorship Training for STEM Teachers on Culturally Responsive Pedagogies

1 / 02/ 2023

Training Workshop for STEM Teachers

17/11/2022

Global Best Practices in the Teaching and

10 – 14/ 10/ 2022

Learning of the Atom (Lesson write-up)

Global Best Practices in the Teaching and

10 – 14 /10/ 2022

Learning of Acids Bases and Salts (Lesson write-up)

Talk on Encouraging Girls in the Effutu

5th and 9th/ 08 / 2022

Municipality to pursue Science and related

Career Girls at the UEW Female FSE Lecturers

Maiden Science Fair for Girls

(<https://www.uew.edu.gh/news/uew-femalefselecturers-and-effutu-ges-hold-maiden-sciencefair>)

Student Development

Number of Students counseled

Academic Counselor for level 300
Science Education Students

Period

Feb – Jul, 2023

Length of Time

30 - 45 mins each meeting

Guiding AISES Executive write proposals and plan activities for their annual departmental week celebration

05/ 2023 – 09/2023

20 – 30 mins each meeting

Other individual students: 9

2022- June, 2033

20 – 30 mins each meeting

Membership of Professional Association

Name of Association

Globe Observer Programme

Position

Member

Period

07/2023-

Women Advancing STEM in Ghana Network (WASGN)	<i>Vice President/Secretary</i>	09/2023-
Organisation for Women in Science for the developing world (OWSD)	<i>Member</i>	20/09/2022 -Date
American Chemical Society (ACS)	<i>Member</i>	06/07/2022-Date
African Students and Alumni ASAF	<i>Member</i>	08/06/2022 –Date
Ghana Science Association	<i>Member</i>	05/2022- Date
University Teachers Association of Ghana (UTAG)	<i>Member</i>	01/07/2021 – Date

Institutional Service

Name of Committee(s) and/or Board(s)	Position or Role	Period
Proposal Writing (Centre of School and Community Science and Technology Studies (SACOST))	Research / Grant Proposal writing/ Planning of Community Services	7-9/02/2023
Consultancy Centre (Institute of Educational Research and Innovative Studies (IERIS))	Research/ Grant Proposal writing/ Planning of Community Services	12/2022
Grant Proposal writing committee	Grant Proposal Writing	10/2022

Community Service

Name of Institution/Organisation	Position(s) held (if applicable)	Nature of service rendered	Period
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ACS Chemistry festival	Project Coordinator	Training of Basic school teachers in using everyday indigenous practices to improve the teaching of science	
ACS Chemistry Festival	ACS Chemistry Festival, Project Consultant	Advice on Planning and implementation of ACS Chemistry festival titled: ChemyTrip	24/10/2023
ACS Chemistry Festival	ACS Chemistry Festival, Project Consultant	Advice on Planning and implementation of ACS Chemistry festival titled: Chemistry in the Kitchen	21/09/2023
ACS Chemistry Festival	ACS Chemistry Festival, Project Consultant	Advice on Planning and implementation of ACS Chemistry festival titled: From classroom to the community, water treatment and sustainability	4/06/23
UN International Day of Women and Girls in STEM	Team Member and Chairperson	Developing STEM skills of rural girls through indigenous based practices	10 / 02 / 2023
Mentorship for Girls in Rural basic schools Gyahadze Basic School	Mentor	Developing STEM skills of rural girls through indigenous based practices	7 / 02 / 2023

Name of Institution/Organisation

Position(s) held (if applicable)

Nature of service rendered

Period

Training and Mentorship for teachers in STEM Atteitu Basic School	Trainer / Mentor	Training and Mentorship for teachers in STEM Atteitu Basic School Developing STEM skills of rural girls through indigenous based practices	1 / 02/ 2023
ACS Chemistry Festival	ACS Chemistry Festival Project Coordinator	Engagement with the community to unmask the chemistry in indigenous Activities	24/ 1/2022
ACS Chemistry Festival	ACS Chemistry Festival Project Coordinator	Training for STEM teachers in 4 rural schools in the Effutu Municipality	17 / 11 / 2022
ACS chemistry Festival	ACS chemistry Festival Project Coordinator	An interview at Radio Windy Bay to educate the public on the chemistry in indigenous activities	16 / 11 / 2022
UEW Female FSE Lecturers Maiden Science Fair for Girls (https://www.uew.edu.gh/news/uewfemale-fse-lecturers-and-effutu-geshold-maiden-science-fair)	Mentor / Judge	Delivered a talk on Encouraging Girls in the to pursue Science and related careers / Judged pupils scientific work at the fair	05 / 08/ 2022

Awards/Grants

Name/Type of Award / Grant	Awarding Institution Organisation	Period
Chemistry Festival Grant	American Chemical Society	05/2024

Laissez-Passer of the Erasmus Generation contest. https://www.uew.edu.gh/fse/news/uew-scholars-triumph-global-innovation-contest	GaragERASMUS foundation	16/11/2023
GOT Project mobility Beneficiary	UEW Dept. of ICT (GOT Project Team)	23/10/23
ASAF LOCAL PROJECT	European Union Erasmus+	9 / 08 / 2023
DAAD Falling Walls Lab Ghana	DAAD, Ghana Office	26/ 05/ 2023
Chemistry Festival Grant	American Chemical Society	05/2023
Chemistry Festival Grant	American Chemical Society	08 / 2022
PhD Fellowship at Jyvaskyla	Erasmus+ Global (European Union)	09 / 2021 – 12 / 2021
Carnegie Scholarship	New York	2007-2010

Referees

Prof. Ruby Hanson
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