#### **PERSONAL BRIEF**

**Surname:** Anornu

Other names: Kwame Geophrey

**POSTAL ADDRESS:** Civil Engineering Department,

College of Engineering,

Kwame Nkrumah University of Science and Technology,

Kumasi Ghana,

Tel/Fax: +233-03220-60226/60235 Mobile: +233-(0)24-4882912 Email: anoprof@hotmail.com

ganornu.soe@knust.edu.gh

Date of Birth:16th September, 1963Place of Birth:Kpando, GhanaNationality:Ghanaian

**Current Rank:** Associate Professor

#### 1. ACADEMIC DEGREES AND INSTITUTIONS ATTENDED

#### 1 (a) Academic Degrees earned with dates

Ph.D. in Water Resources Engineering from Belarus Polytechnic Academy, Minsk, Belarus	June 1999
M.Sc. in Hydraulic Engineering from Byelorussian Agricultural Academy, Gorki, Belarus	June 1991

#### 1 (b) Institutions attended with dates

1993 – 1999 Belarus Polytechnic Academy, Belarus. 1986 – 1991 Byelorussian Agricultural Academy, Belarus.

#### 2. UNIVERSITY TEACHING AND RESEARCH EXPERIENCE

### 2 (a) Academic Ranks held and subjects taught

#### Academic Ranks held

Date Rank

Civil Engineering Department, Kwame Nkrumah University of

Science and Technology, Kumasi

1<sup>st</sup> Oct. 2010 – 31<sup>st</sup> July 2016 **Senior Lecturer** 

Civil Engineering Department, Kwame Nkrumah University of

Science and Technology, Kumasi

14<sup>th</sup> March 2003 –30<sup>th</sup>

Lecturer

Sept. 2010 Civil Engineering Department, Kwame Nkrumah University of

Science and Technology, Kumasi

Subjects tau	ight at KNUST (2016 – date)		
Code	Subjects	Course credit	<b>Period Taught</b>
First Semest	er		
	BSc Level		
CE 471	Irrigation & Drainage Engineering	3	2016 to date
CE 457	Drainage Systems	3	2016 to date
CE 497	Civil Engineering Design (CED)	3	2016 to date
CENG 291	Engineering in Society	2	2016 to date
CE 471	Irrigation & Drainage Engineering	3	2019 to date
	(MasterCard)		
CE 471	Irrigation & Drainage Engineering (IDL)	3	2017 to date
CE 457	Drainage Systems (IDL)	3	2017 to date
	MSc Level		
CEWR 533	Hydrogeology	3	2016 to date
CEWR 517	Urban hydrology and urban drainage	3	2016 to date
CEWR 691	Individual Research Thesis	12	2016 to date
CEWS 691	Individual Research Thesis	12	2010 to date
Second Sem	nester		
	BSc Level		
CE 256	Fluid mechanics (Civil)	3	2016 to date
CE 256	Fluid mechanics (IDL Civil)	3	2018 to date
CE 256	Fluid mechanics (Geological)	3	2016 to date
CE 458	Water Resources Engineering	3	2016 to date
CE 458	Water Resources Engineering (IDL)	3	2018 to date
CE 498	Project work	3	2016 to date
	MSc Level		
CEWR 536	Irrigation & Drainage Engineering	3	2016 to date
CEWR 552	Source Water Development	2	2016 to date
CEWR 582	Group Project	3	2016 to date
CEWS 582	Group Project	3	2016 to date

# 2(b) Supervision of students' project work/theses/research Supervision of BSc Theses and Year of Graduation

Name of student Title of project work No Year Amenawonyo Assess the efficiency of drains in the Asokwa community, Prosper Kumasi Bortey Edward Nii Assessing the Factors Contributing to Drain Destructions in Bortei the Ayeduase/Kotei Community Assessing the Effects of Human Activities on the Bibini Stream Sarpong Kofi Owusu 3 Amoah Felix Assessing the Effects of Human Activities on the Sisai River 4 Amponsah Kwesi Ofosu Ofori Assessing the Economic Importance of Urban and Peri-Urban 5 Agriculture in the Kumasi Metropolis 2020 Assessing the Economic Importance of Urban and Peri-Urban Bahiiseh Muftawu 6 Agriculture in the Kumasi Metropolis Effect of a Potential Human Activities on the Wewe Stream Jeffery Seinaa 7 8 Aayire Issac Access the Drainage Systems in Ayigya Community Quansah Emmanuel Assessment of Drainage Systems in the Boadi Amina 9 Community Kwartey Enoch Assessment of the Characteristics of Self Applied Systems in 10 Oduro the Kotei-Ayeduase Community

11	Sarkodie Amankwah	Evaluate or Assessment of the Effect of the Absence of Drains	
12	Kwasi Boampong Nana	in the Deduako Community  Assessment of the Challenges of Self Applied Systems in the	
12	Yaw Stephen	Bomso Community	
13	Attoh Alfred	Assessing the Impact of Human Activities on Road Drains within Asafo	
14	Asante Boadu Johnny	Investigating the Impact of Human Activities within the Bibini	
15	Osei Afram Owusu	Assessing the Sanitary Zone Conditions of Self Supply Water Systems in Ayigya and Bomso Communities	
16	Essel Issac Boakye	Assessing the State of Drainage System in the Asafo Market and its Environ	
17	Osei-Boakye Emmanuel Snr.	Investigate Anthropogenic Activities Influencing the Bibini Stream Flow	
18	Akosah Sarpong Clinton	Investigate Anthropogenic Activities Influencing the Sesa Stream Flow	
19	Sarpong Robert	Assessment of Anthropogenic Activities Influencing the Wewe Stream Flow	
20	Afer Jude Ato Kwamena	Assessing the Challenges and Characteristics of Point Sources Within Kotei/Gyinyase Communities	
21	Abass Abdullahi	Assess the Efficiency of Drainage Systems in the Atonsu-Agogo Community	
22	Lartey Praise Kwasi	Potential Human Activities Influencing the Wiwi Catchment	
23	Adu Yeboah	Assessment of the effectiveness of drains in the Bomsu community, Kumasi	
24	Bow Albert	Analysis of the effect of drainage systems in the Bomso community	
25	Anewenah Maxwell Wedam	Assessing and analysing roadside drains in the Kotei-Ayeduase area, Kumasi (Ghana)	
26	Baah Frimpong, Benjamin	Assessment of the impacts and challenges of road users on urban road side drains in the Asafo-Amakom area of the Kumasi metropolis	
27	David Kabutey Caesar	The assessment of the impact of drainage facilities on the Ayigya community in the Kumasi metropolitan area, Ghana	
28	Nikoe Elvis Harry	Assessment of drains in Ayeduase-Kotei	3040
29	Debrah Freda	Assessing the impact of human activities on the Sissan river, Kumasi	2019
30	Gaisie Augustus Ekow Junior	Assessment of stormwater management strategies in Aboabo, Kumasi	
31	Krakow Samuel Kingsford	Assessing the effects of drainage systems and its implications on roads pavements in Ayigya, Kumasi (Ghana)	
32	Okai nii Aryee Okine	Assessment of stormwater management strategies in urban areas in Kumasi. (Central Business District)	
33	Benin Milebasua Frank	Assessment of drains in Ayeduase new site	
34	Samuel Kwapong Tettey	Contribution of urban and peri-urban agriculture to livelihoods security and poverty reduction in Ghana	2018
35	Ahiable Cyril Kwesi	Urban roads drainage management (Case of Kumasi)	2017
36	Kornyoh Eyram Paul	Investigation on urban roadside drains and the road users: impacts and challenges	
37	Oduro-Marfo Eric	Assessment of the impact and challenges of roadside drains in the Bomso community	2016
38	Odame Adufu Mark	Urban drainage system and the citizens, perspective and challenges: case study Kumasi metropolis	

## **Masters Theses**

No	Name of student	Title of thesis	Year
1	Emmanuel	Influence of land use changes on white Volta basin, Ghana	
	Acheampong	(Supervisors: <b>Anornu, G.K</b> . and Awotwi, A.)	
2	Benjamin	Groundwater Recharge Estimation in the Afram Plains of Ghana	
	Wullobayi	Using Remote Sensing and SWAT Techniques (Supervisors:	
	Dekongmen	<b>Anornu, G. K.</b> , Kabobah A.T. and Yihun D. T.)	
3	Salim Marie	Assessing the impact of climate change impact on groundwater	
	Fabiola Sigue	recharge. Case study of Kou Watershed, Burkina-Faso	2020
		(Supervisors: <b>Anornu, G.K</b> . and Awotwi, A.)	2020
4	Habila Zingchang	Aquifer potential and groundwater quality assessment of	
	Alfred	Langtang area Plateau State, Nigeria (Supervisors: Anornu, G.K.	
		and Abass G.)	
5	Gyadu	Impact of climate change on ground water potential zones in the	
	Emmanuel	Black Volta basin, Ghana (Supervisors: <b>Anornu, G.K.</b> and Awotwi,	
6	V Christanhar	A.)	
6	Vuu Christopher	Groundwater recharge estimation in the Volta river basin: a case- study in Afram plains south district, Ghana (Supervisors: Anornu,	
		G.K., Kabobah A.T. and Abass G.)	
7	Theophilus	Groundwater vulnerability assessment of the Pra basin using	
'	Aryee Aryeetey	multicriteria decision analysis (Supervisors: <b>Anornu, G.K.</b> and	
	7, cc, cc.cc,	Gyamfi, C)	
8	Julia Atayi	Assessing the variations of Terrestrial Water Storage and Climate	
	,	Variability of the Volta basin (Supervisors: Anornu, G.K., Kabobah,	
		A.T. and Adam-Akorful, S.A.)	
9	Bernard Kubi	Evaluation of index-overlay models for groundwater vulnerability	
		and risk assessment (Supervisors: <b>Anornu, G.K</b> . and Gyamfi, C)	
10	Isaac Kotei	Assessment of groundwater potential in the Offin basin	2019
		(Supervisors: <b>Anornu, G.K</b> . and Gyamfi, C)	
11	David Kabutey	Modelling the hydrological impacts of land use land cover change	
	Akuaku	in the Ankobra basin (Supervisors: <b>Anornu, G.K</b> . and Gyamfi, C.)	
12	James Ashaley	Assessing the impact on climate change on availability of water	
		and its allocation for irrigation purposes-Kpong Irrigation Scheme	
42	Dita Alcasus	(KIS), Asutsuare (Supervisor: <b>Anornu, G.K.</b> )	
13	Rita Akosua	Spatio-temporal analysis of water quality trends in the Densu river	
1.4	Anima Gyimah Albert Mendy	basin (Supervisors: <b>Anornu, G.K.</b> , Gyamfi, C. and Karikari, A.Y.) Assessment of knowledge and practices on water management in	
14	Albert Mendy	small holder irrigation schemes: a case study of West Coast region,	
		the Gambia (Supervisor: <b>Anornu, G.K.</b> )	
15	Basadi Gassama	Basin irrigation modelling to assess the impact of SRI and CF	
'	basaar gassarria	water management practices on irrigation performance	
		(Supervisor: Anornu, G. K.)	
16	Gbadago Jesse	Monitoring eutrophication using remote sensing techniques	
L	Senyo	(Supervisor: Anornu, G. K.)	
17	Ebrima Touray	Performance of small-scale irrigation schemes in the Gambia case	2018
		study: West Coast Region (Supervisor: <b>Anornu, G. K</b> .)	2010
18	Kazapoe Jesse	Assessing the productivity of irrigation schemes in semi-arid	
	Pwayivi	regions of Ghana: a case of four (4) selected schemes (Supervisor:	
		Anornu, G.K.)	
19	Portia Annabelle	Groundwater quality and health risk assessment of Atonsu in the	
	Opoku	Ashanti region of Ghana (Supervisor: <b>Anornu, G.K</b> .)	

remote sensing and geographical information system (Supervisors: Anornu, G.K., and Kabobah, A.T.)  21 Wuyeh Tamba Climate variability and groundnut productivity in Central River region north (CRRN) of the Gambia (Supervisor: Anornu, G.K.)  22 Tijan Sanneh Investigating water management efficiency in tidal irrigation on rice production "case of Central River region" (CRR), Banjul, the Gambia (Supervisor: Anornu, G.K.)  23 Agyare Asante Evaluation of groundwater vulnerability to pollution using f-hydra and pesticide drastic index with geographic information system. A case-study on Afram plains, Ghana (Supervisors: Anornu, G.K. and Kabobah, A.T.)  24 Joseph Stephen Sarpong Flow measurement for ungauged Kakayini and Kodadwen streams in support of local rice production in the Ashanti Region of Ghana (Supervisors: Anornu, G.K. and Agodzo S.K.)  25 Atakorah Edward Optimization of irrigation management strategies under climate change (Supervisors: Anornu, G.K. and Annor, F.)  26 Christiana Kodua Spatiotemporal analysis of evapotranspiration from moderate resolution imaging spectroradiometer (MODIS) over the Pra basin (Supervisors: Anornu, G.K. and Kabobah, A.T.)  27 Edward Nunoo Monitoring soil moisture dynamics with remote sensing to support Irrigation Scheduling in the White Volta Sub-Basin of Ghana (Supervisors: Anornu, G.K. and Annor, F.)  28 Seth Ankamah The impact of management and maintenance practices on drip irrigation performance (Supervisors: Anornu, G.K. and Annor, F.)  30 Adum Leticia Opae Saessing to Supervisors: Anornu, G.K. and Kabobah, A.T.)  31 Kwabena Debrah Djan Assessment of Sediment inflow to Lake Volta under Present Climate and Future Climate Change Scenarios (Supervisors: Anornu, G.K. and Obuobie, E.)  31 Kwabena Debrah Djan Hydrological framework and groundwater recharge estimation in the Tongo district of the Upper East Region of Ghana (Supervisor: Anornu, G.K.)  32 Dakpalah Segtub Sixtus Region (Supervisor: Anornu, G.K.)	20	Sarah Abebrese	Assessment of groundwater potential zones in bole district using	
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Joseph Stephen Sarpong  Flow measurement for ungauged Kakayini and Kodadwen streams in support of local rice production in the Ashanti Region of Ghana (Supervisors: Anornu G.K. and Agodzo S.K.)  25 Atakorah Edward  Optimization of irrigation management strategies under climate change (Supervisors: Anornu, G.K., and Annor, F.)  26 Christiana Kodua Boafo  Spatiotemporal analysis of evapotranspiration from moderate resolution imaging spectroradiometer (MODIS) over the Pra basin (Supervisors: Anornu, G.K. and Kabobah, A.T.)  27 Edward Nunoo  Monitoring soil moisture dynamics with remote sensing to support Irrigation Scheduling in the White Volta Sub-Basin of Ghana (Supervisors: Anornu, G.K. and Annor, F.)  28 Seth Ankamah  The impact of management and maintenance practices on drip irrigation performance (Supervisors: Anornu, G.K. and Annor, F.)  29 Adum Leticia Osae  Application of gravity recovery and climate experiment (grace) satellite data for groundwater variations estimation in the Volta river basin (Supervisors: Anornu, G.K. and Kabobah, A.T.)  30 Osei-Owusu Mark  Assessment of Sediment inflow to Lake Volta under Present Climate and Future Climate Change Scenarios (Supervisors: Anornu, G.K. and Obuobie, E.)  11 Kwabena Debrah Djan  Hydrological framework and groundwater recharge estimation in the Tongo district of the Upper East Region of Ghana (Supervisor: Anornu, G.K.)  2016  32 Dakpalah Segtub  Assessing Small Scale Irrigation Development in Upper West			case-study on Afram plains, Ghana (Supervisors: Anornu, G.K. and	
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(Supervisors: Anornu, G K. and Kabobah, A.T.)  27 Edward Nunoo Monitoring soil moisture dynamics with remote sensing to support Irrigation Scheduling in the White Volta Sub-Basin of Ghana (Supervisors: Anornu, G.K. and Annor, F.)  28 Seth Ankamah The impact of management and maintenance practices on drip irrigation performance (Supervisors: Anornu, G.K. and Annor, F.)  29 Adum Leticia Osae Satellite data for groundwater variations estimation in the Volta river basin (Supervisors: Anornu, G.K. and Kabobah, A.T.)  30 Osei-Owusu Assessment of Sediment inflow to Lake Volta under Present Climate and Future Climate Change Scenarios (Supervisors: Anornu, G.K. and Obuobie, E.)  31 Kwabena Debrah Djan Hydrological framework and groundwater recharge estimation in the Tongo district of the Upper East Region of Ghana (Supervisor: Anornu, G.K.)  32 Dakpalah Segtub Assessing Small Scale Irrigation Development in Upper West	26	Christiana Kodua	Spatiotemporal analysis of evapotranspiration from moderate	
27 Edward Nunoo Monitoring soil moisture dynamics with remote sensing to support Irrigation Scheduling in the White Volta Sub-Basin of Ghana (Supervisors: Anornu, G.K. and Annor, F.)  28 Seth Ankamah The impact of management and maintenance practices on drip irrigation performance (Supervisors: Anornu, G.K. and Annor, F.)  29 Adum Leticia Application of gravity recovery and climate experiment (grace) satellite data for groundwater variations estimation in the Volta river basin (Supervisors: Anornu, G.K. and Kabobah, A.T.)  30 Osei-Owusu Assessment of Sediment inflow to Lake Volta under Present Climate and Future Climate Change Scenarios (Supervisors: Anornu, G.K. and Obuobie, E.)  31 Kwabena Debrah Djan Hydrological framework and groundwater recharge estimation in the Tongo district of the Upper East Region of Ghana (Supervisor: Anornu, G.K.)  32 Dakpalah Segtub Assessing Small Scale Irrigation Development in Upper West		Boafo	resolution imaging spectroradiometer (MODIS) over the Pra basin	
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Djan the Tongo district of the Upper East Region of Ghana (Supervisor: Anornu, G.K.)  Dakpalah Segtub Assessing Small Scale Irrigation Development in Upper West	31	Kwabena Debrah	Hydrological framework and groundwater recharge estimation in	
32 Dakpalah Segtub Assessing Small Scale Irrigation Development in Upper West		Djan	the Tongo district of the Upper East Region of Ghana (Supervisor:	
			Anornu, G.K.)	2016
Sixtus Region (Supervisor: <b>Anornu, G.K.</b> )	32	Dakpalah Segtub	Assessing Small Scale Irrigation Development in Upper West	
		Sixtus	Region (Supervisor: <b>Anornu, G.K</b> .)	

## **PhD Theses**

PhD Theses in the period 2016 to date: 3 completed; 8 on going

	Name of	period 2010 to date. 3 completed, 6 on going	
No	student	Title of thesis	Year
1	Isai	Suitability analysis of a groundwater recycling system using Aquifer	
	Bassene	Storage and Recovery (ASR) (Supervisors: Anornu, G.K., Faye S. and	
		Abass G.)	
2	Kouacou	Geochemical multi-approaches of natural and anthropogenic sources	
	Boadou	to freshwater pollution: case of Sassandra sub-watershed (Côte	
	Adjéï	d'Ivoire) (Supervisors: <b>Anornu, G.K</b> ., Boadou Kouacou A.B. and Abass G.)	
3	John	Predicting effect of climate and land cover changes on spatial variation	
	Jackson	of evapotranspiration within the Pra basin of Ghana (Supervisors:	
	Nsiah	Anornu, G.K., Abass G. and Gyamfi, C.)	Yet to
4	Zakaria	Hydrogeochemical and isotopic study of groundwater contamination	complete
	Nafisatu	sources in the Anayari catchment (Supervisors: Anornu G.K., Owusu-	complete
		Nimo F. and Adomako D.)	
5	Gustav	Hydrogeological and hydrochemical characterization of major	
	Merrit	formations in the Central region, Ghana (Supervisors: Anornu, G.K.,	
	Osiakwan	Appiah-Adjei, E. K., Kabobah, A.T.)	
6	Robert	Statistical and structural equation modeling applications to	
	Kofi	hydrogeological and aquifer vulnerability study: Case of the south	
	Yankey	western coastal basin (Supervisors: <b>Anornu, G.K.</b> , Appiah-Adjei, E.K. and	
		Ganyaglo, S.Y.)	
7	Courage	Hydrogeochemistry and Environmental Isotopes Study of	
	Davidson	Groundwater in Lower Volta River Basin, Ghana: Implications for Water	2020
	Egbi	Resources Management (Supervisors: <b>Anornu, G.K.</b> , Appiah-Adjei, E.K.	
		and Ganyaglo, S.Y.)	
8	Maxwell	Hydrogeochemical evolution, quality appraisal and risk assessment of	
	Anim	shallow groundwater aquifers within the Atankwidi basin of Ghana	
	Gyampo	(Supervisors: <b>Anornu G.K.</b> , Appiah-Adjei, E.K. and Agodzo S.K.)	2019
9	Alfred	Assessing the impact of anthropogenic activities and climate change	
	Awotwi	on hydrology in Pra river basin, Ghana (Supervisors: <b>Anornu G.K.</b> , Quaye-	
44	Cibrilla	Ballard, A.J. and Annor T.)	
11	Gibrilla	Recharge and groundwater sustainability studies in a semi-arid region	2040
	Abass	using classical and isotopic approach: a case study of Upper East region	2018
42	Michael	of Ghana. (Supervisors: <b>Anornu G.K</b> . and Adomako, D.)	
12	Michael Ampim	Ground water contamination through Cyanide and Metal Migration from tailings dam operation at GFGL. (Supervisors: Anornu G.K. and	2016
	•	, , ,	2016
	Sackey	Kuma, J.S.K.)	

## 2(c) Other professionally related experience

	<u> </u>
January, 2020 to date	External Examiner for Civil Engineering programme, Central University College, (CUC)
2019 to date	Council Member, Akatsi College of Education Council
2018, 2019	Vice-Dean, Faculty of Civil and Geo-Engineering, KNUST
2019 to date	Professorial Member, College of Engineering Board, KNUST, Kumasi
2019	Reviewer, Groundwater for Sustainable Development
2019	Reviewer, Polish Journal of Environmental Studies

2019	Reviewer, Environmental Pollution
2019 to date	Board Member, The Brew-Hammond Energy Centre, KNUST
2019 to date	<b>Deputy Centre Director,</b> Regional Water and Environmental Sanitation Cejntre Kumasi (RWESCK), KNUST
2019 to date	<b>Research Leader,</b> Water Resources Management Research of Regional Water and Environmental Sanitation Centre Kumasi, KNUST
2019 to date	<b>Member,</b> Committee to review the delivery of the Civil Engineering programme on the IDL platform
October, 2019	<b>Resource Person,</b> Training workshop on borehole drilling and construction, Kaduna, Nigeria.
2019 to date	Chairman, RWESCK Scholarship committee
March, 2019	<b>Member,</b> Committee to complete work on proposed MPHIL and PHD in Disaster and prevention management, Civil Engineering Department
September, 2019	<b>External Examiner</b> of PhD thesis, University of Energy and Natural Resources (UENR), Sunyani
23 – 24 October 2019	<b>Participant,</b> Administrative and leadership workshop for all Provosts, Deans and Heads of Department
2018, 2019	External Assessor of staff promotion applications from Ghana Atomic Energy Commission,
2018 to date	Member, Faculty of Civil and Geo-engineering Board, KNUST
2016 to 2018	<b>Board Member,</b> KNUST Representative on Princefield University college Academic Board.
November, 2018	<b>Panel Member,</b> re-Accreditation B. Tech Civil Engineering programme at the Accra Technical University
September 2018	<b>Participant</b> , One-week course on Managing Human Resources for staff development and retention, by Association of African Universities (AAU), Nairobi, Kenya
June, 2018	<b>Chairman,</b> Committee to investigate allegation of examination malpractices against Mr Asiedu Ennin Evans and Mr Donkor Geoffrey, BSc. Geological Engineering Degree (III) students with Department of Geological Engineering
2018	Member, RWESCK programmes Accreditation Committee
March 2018	<b>Participant</b> , One-week course on Project management essentials, by Maastricht School of Management, The Netherlands
March 2018	<b>Participant,</b> One-week course on Entrepreneurial university transformation, by Maastricht School of Management, The Netherlands
2018 to date	As the acting HOD in the absence of the substantive HOD
2016 to 2018	<b>Coordinator</b> , Regional Water and Environmental Sanitation Centre Kumasi (RWESCK) PhD programmes
2017 to date	Chairman, College of Engineering, KNUST Laboratory Management committee
November 2017 and August, 2016	<b>Panel Member,</b> re-Accreditation of HND in Civil Engineering programme at the Bolgatanga Polytechnic, Wa
2017 to date	<b>Board Member and elected as Chairman</b> , Adaklu Senior High School Governing Board, Adaklu District
2017 to date	Hall Fellow, Unity Hall, KNUST, Kumasi
2017 to date	Acting HOD, In the absence of the substantive HOD
???? 2017	<b>External Assessor</b> of staff promotion application from the Bolgatanga Polytechnic.
March 2017	Participated in one-week course on Active Teaching and Learning, KNUST, Ghana by Maastricht School of Management, The Netherlands in KNUST, Kumasi
2017	Reviewer, Current Journal of Applied Science and Technology

2017	Reviewer, Asian Journal of Environment and Ecology
August 2017	<b>Participant</b> , One-week Summer School at KNUST on 'Technology, Manpower Training and Development', KNUST, Kumasi
June 2017	<b>Participant</b> , One-week course on 'Water Productivity and the WaPOR FAO database', Accra, Ghana
2016 to date	Head, Water Resources Section, Civil Engineering Department, KNUST
2016 to date	Verification of HND examination marked scripts
2016 to date	<b>External Moderator/Examiner,</b> Polytechnics/Technical Universities HND examination questions
Aug. 2016 and Sep. 2016	External Assessor of staff promotion application from the Takoradi Polytechnic
Sep. to Nov. 2016	<b>Participant</b> , Training of Trainers, Online Course Design, Management, and Facilitation on the Cap-Net Virtual Campus
Au. 2016	<b>Participant,</b> One-week Summer School at KNUST on 'Strengthening the linkage amongst academia, industry and government'
2014 to date	<b>External Moderator,</b> Koforidua Technical University Bachelor of Technology in Civil Engineering courses
2013 to date	Member, Steering Committee, African Groundwater Network (AGW-Net)

# 3. DETAILS OF RESEARCH, PROJECTS OR EXHIBITION UNDERTAKEN SINCE LAST APPOINTMENT/PROMOTION TO THE UNIVERSITY

### a. Research Conducted (Topics with dates)

- 1. Evaluation of groundwater resources in Ghana using integrated hydrogeological, hydrogeochemical and isotopic techniques, 2016 to date.
- 2. Water resources inventory, source identification and quantification of amount of groundwater replenishment for water supply to rural communities in Ghana, 2016 to date.
- 3. Contribution of informal shallow groundwater irrigation to livelihoods security and poverty reduction in the White Volta Basin: current extent and future sustainability, 2016 to date
- 4. Software Development for the determination of reference/crop evapotranspiration, 2016 to
- 5. Integrated Water Resources Management at Basin Level. 2016 to date.

#### b. Publications Arising out of the Research

#### i. Refereed journal papers with exact references

- 1. Osiakwan, G. M., Appiah-Adjei, E. K., Kabo-Bah, A. T., Gibrilla, A., & **Anornu, G.** (2021). Assessment of groundwater quality and the controlling factors in a coastal aquifers of Ghana: An integrated statistical, geostatistical and hydrogeochemical approach. *Journal of African Earth Sciences*, 104371
- Awotwi, A., Anornu, G. K., Quaye-Ballard, J. A., Annor, T., Nti, I. K., Odai, S. N., ... & Gyamfi, C. (2021). Impact of post-reclamation of soil by large-scale, small-scale and illegal mining on water balance components and sediment yield: Pra River Basin case study. Soil and Tillage Research, 211, 105026
- 3. Egbi, C.D., **Anornu, G.K.**, Ganyaglo, S.Y., Appiah-Adjei, E.K., Li, S.L. and Dampare, S.B. (2020). Nitrate contamination of groundwater in the Lower Volta River Basin of Ghana: Sources and related human health risks. *Ecotoxicology and Environmental Safety*, 191, 110227. **(Scopus)**
- 4. Opoku A.P., **Anornu G.K**, Gibrilla A, de-Graft Johnson Owusu-Ansah E., Ganyaglo S.Y. and Egbi C.D., (2020). Spatial distributions and probabilistic risk assessment of exposure to heavy metals in groundwater in a peri-urban settlement: case study of Atonsu-Kumasi, Ghana,

- Groundwater for Sustainable Development, Volume, 10, doi: <a href="https://doi.org/10.1016/j.gsd.2019.100327">https://doi.org/10.1016/j.gsd.2019.100327</a>. (Scopus)
- 5. Sarpong, J.S., Agodzo, S.K., **Anornu**, **G.K.** and Hirouchi, S. (2019). Flow Measurement for Ungauged Kakayini and Kodadwen Streams in Support of Local Rice Production in the Ashanti Region of Ghana. *International Journal of Innovative Science and Research Technology*, 4(2), 225-233. (**Google Scholar, Index Copernicus, Scribd, Academia**)
- 6. Bansah, S., Andam-Akorful, S.A., Quaye-Ballard, J., Wilson, M.C., Gidigasu, S.S. and **Anornu**, **G.K.** (2019). An Evaluation of Catchment Transit Time Model Parameters: A Comparative Study between Two Stable Isotopes of Water. *Geosciences*, 9(7), 318. (*Scopus*)
- Awotwi, A., Anornu, G.K., Quaye-Ballard, J.A., Annor, T., Forkuo, E.K., Harris, E. and Terlabie, J.L. (2019). Water balance responses to land-use/land-cover changes in the Pra River Basin of Ghana, 1986–2025. CATENA, 182, 104129. (Scopus)
- 8. Anim-Gyampo, M., **Anornu**, **G.K.**, Appiah-Adjei, E.K. and Agodzo, S.K. (2019). Quality and health risk assessment of groundwater in the shallow aquifers within the Atankwidi basin of Ghana. *Groundwater for Sustainable Development*, 100217. (*Scopus*)
- 9. Bansah, S., Andam-Akorful, S.A., Quaye-Ballard, J. and **Anornu**, **G.K.** (2019). End-Member Selection in Two-Component Isotope-Based Hydrograph Separation. *Open Journal of Modern Hydrology*, 9, 41-53. (**SCIRP, DOAJ, Web of Science**)
- 10. Gyamfi, C., Amaning-Adjei, K., **Anornu, G.K.**, Ndambuki, J.M. and Odai, S.N. (2019). Evolutional characteristics of hydro-meteorological drought studied using standardized indices and wavelet analysis. *Modeling Earth Systems and Environment*, 1-15. (*Springer, Web of Science*)
- 11. Egbi, C.D., **Anornu**, **G**., Appiah-Adjei, E.K., Ganyaglo, S.Y. and Dampare, S.B. (2019). Evaluation of water quality using hydrochemistry, stable isotopes, and water quality indices in the Lower Volta River Basin of Ghana. *Environment, Development and Sustainability*, 21(6), 3033-3063. (**Scopus**)
- 12. Anim-Gyampo, M., **Anornu**, **G.K.**, Agodzo, S.K. and Appiah-Adjei, E.K. (2019). Groundwater Risk Assessment of Shallow Aquifers within the Atankwidi Basin of Northeastern Ghana. *Earth Systems and Environment*, 3(1), 59-72. (**Scopus**)
- 13. Awotwi, A., **Anornu**, **G.K.**, Quaye-Ballard, J.A. and Annor, T. (2018). Monitoring land use and land cover changes due to extensive gold mining, urban expansion, and agriculture in the Pra River Basin of Ghana, *Land Degradation & Development*, 29(10), 1986–2025. (*Scopus*)
- 14. Anim-Gyampo, M., **Anornu**, **G.K.**, Appiah-Adjei, E.K. and Agodzo, S.K. (2018). Hydrogeochemical evolution and quality assessment of groundwater within the Atankwidi basin: the case of northeastern Ghana. *Arabian Journal of Geosciences*, 11(16), 439. **(Scopus)**
- 15. Gibrilla, A., **Anornu**, **G**. and Adomako, D. (2018). Trend analysis and ARIMA modelling of recent groundwater levels in the White Volta River basin of Ghana. *Groundwater for Sustainable Development*, 6, 150-163. (**Scopus**)
- 16. Boakye E., **Anornu G.K.**, Quaye-Ballard J.A. and Donkor E.A. (2018). Land use change and sediment yield studies in Ghana: Review. *Journal of Geography and Regional Planning*, Vol. 11(9), pp. 122-133. (**Academia, Web of Science**)
- 17. Dakpalah, S.S., **Anornu**, **G.K.** and Ofosu, E.A. (2018). Small Scale Irrigation Development in Upper West Region, Ghana; Challenges, Potentials and Solutions. *Journal of Civil and Environmental Research*, 10(3), 85-97. **(EBSCO, Index Copernicus, ProQuest)**
- 18. Awotwi, A., **Anornu**, **G.K.**, Quaye-Ballard, J., Annor, T. and Forkuo, E.K. (2017). Analysis of climate and anthropogenic impacts on runoff in the Lower Pra River Basin of Ghana. *Heliyon*, 3(12), e00477. **(Scopus)**
- 19. Gibrilla, A., Adomako, D., **Anornu, G.**, Ganyaglo, S., Stigter, T., Fianko, J.R. and Ako, A.A. (2017).  $\delta^{18}$ O and  $\delta^{2}$ H characteristics of rainwater, groundwater and springs in a mountainous region of Ghana: implication with respect to groundwater recharge and circulation. Sustainable Water Resources Management, 3(4), 413-429. (**Google Scholar**)

- 20. **Anornu**, **G**., Gibrilla, A. and Adomako, D. (2017). Tracking nitrate sources in groundwater and associated health risk for rural communities in the White Volta River basin of Ghana using isotopic approach (δ¹5N, δ¹8O-NO₃ and ³H). Science of The Total Environment, 60₃, 68γ-698. (Scopus)
- 21. Gyamfi, C., Ndambuki, J.M., **Anornu**, G.K. and Kifanyi, G.E. (2017). Groundwater recharge modelling in a largescale basin: an example using the SWAT hydrologic model. *Modeling Earth Systems and Environment*, 3(4), 1361-1369. (*Springer, Web of Science*)
- 22. Agyare, A., **Anornu**, **G.K**. and Kabo-bah, A.T. (2017). Assessing the vulnerability of aquifer systems in the Volta river basin: a case-study on Afram Plains, Ghana. *Modeling Earth Systems and Environment*, 3(3), 1141-1159. (*Springer, Web of Science*)
- 23. Awere, E. and **Anornu**, G.K. (2016). The contribution of water tanker operations to the health of water consumers in Cape Coast Metropolis, Ghana. *International Journal of Environmental Sciences*, 7(1), 105-112. (**Scopus**)

#### ii. Published conference papers with exact references

- 1. Egbi C.D., **Anornu G.**, Ganyaglo S.Y., Appiah-Adjei E.K., Samuel B. Dampare S.B. and Si-Liang Li. (2019). Nitrate contamination of groundwater in the Lower Volta River Basin of Ghana: Sources and related human health risks. 21<sup>st</sup> EGU General Assembly, EGU2019, Proceedings from the conference held 7-12 April, 2019 in Vienna, Austria, id.17934.
- 2. Zakaria N., **Anornu G,** Adomako D. and Owusu-Nimo F. (2019). Identifying groundwater contamination sources in the Anayari Catchment using isotopes and hydrochemistry. 21<sup>st</sup> EGU General Assembly, EGU2019, Proceedings from the conference held 7-12 April, 2019 in Vienna, Austria, id.17934.
- 3. Anim-Gyampo M., **Anornu G.K.**, Agodzo S.K. and Appiah-Adjei E.K. (2019). Groundwater Risk Assessment for Shallow Aquifers within the Atankwidi Basin of (Ghana). In; H. I. Chaminé et al. (eds.), Advances in Sustainable and Environmental Hydrology, Hydrogeology, Hydrochemistry and Water Resources. Proceedings of the 1st Springer Conference of the Arabian Journal of Geosciences (Tunisia 20180), pp283-286. <a href="https://doi.org/10.1007/978-3-030-01572-5\_678">https://doi.org/10.1007/978-3-030-01572-5\_678</a>. [Editors: Helder I. Chaminé, Maurizio Barbieri, Ozgur Kisi, Mingjie Chen and Broder J. Merkel]
- 4. Gibrilla A., **Anornu G.** and Adomako D. (2017), Tracking nitrate sources in groundwater and associated health risk for rural communities in the White Volta River basin of Ghana using isotopic approach ( $\delta^{15}$ N,  $\delta^{18}$ O-NO $_3$  and  $^3$ H), IAUP 2017 Young Scientist Conference, Vienna, Austria, 5 8 JULY, 2017. [Editors: Dagmar Strohmeier, Oliver Schauer and Markus Gerschberger]
- 5. Gibrilla A., **Anornu G.** and Adomako D. (2017), Identification of hydrogeochemical process and groundwater quality assessment using integrated geochemical methods in the White Volta River basin of Ghana. Regional Water and environmental Sanitation Centre Kumasi (RWESCK), 1<sup>st</sup> Regional Conference and School on Water, Climate Change and Environmental Sanitation, Accra, Ghana 28 31 August 2017.
- 6. Anim-Gyampo, M., **Anornu, G.K.**, Appiah-agyei, E.K. and Agodzo, S.K., (2017). Assessment of groundwater vulnerability within the Atankwidi basin of Ghana. Regional Water and environmental Sanitation Centre Kumasi (RWESCK), 1<sup>st</sup> Regional Conference and School on Water, Climate Change and Environmental Sanitation, Accra, Ghana 28 31 August 2017.
- 7. Awotwi, A., **Anornu, G.K.** and Quaye-Ballard, J. (2017). Multiple regression method for quantifying the influence of precipitation variability and human activities on runoff at Lower Pra River Basin of Ghana. Regional Water and environmental Sanitation Centre Kumasi (RWESCK), 1<sup>st</sup> Regional Conference and School on Water, Climate Change and Environmental Sanitation, Accra-Ghana. 28 31 August 2017.
- 8. **Anornu G.K.**, Annor F.O., Van De Giesen N., Selker J.S., Boateng-Gyimah M. and Oduro-Kwarteng S. (2017). Promoting a water secured Africa through adaptive research and

innovative sensing. Proceedings of the ACEWATER2 Scientific Workshop Accra-Ghana. AU/NEPAD Networks of Water Centres of Excellence, 31<sup>st</sup> Oct – 3<sup>rd</sup> Nov 2016. [Editors: Ronco, P. Crestaz, E. Carmona Moreno, C.]

#### Journals in which papers are published

- 1. Journal of African Earth Sciences
- 2. Soil and Tillage Research
- 3. Ecotoxicology and Environmental Safety (Scopus)
- 4. International Journal of Innovative Science and Research Technology (Google Scholar, Index Copernicus, Scribd, Academia)
- 5. CATENA (Scopus)
- 6. Geosciences (Scopus)
- 7. Groundwater for Sustainable Development (Scopus)
- 8. Open Journal of Modern Hydrology (SCIRP, DOAJ, Web of Science)
- 9. Modeling Earth Systems and Environment (Springer, Web of Science)
- 10. Earth Systems and Environment (Scopus)
- 11. Environment, Development and Sustainability (Scopus)
- 12. Arabian Journal of Geosciences (Scopus)
- 13. Land Degradation and Development (Scopus)
- 14. Sustainable Water Resources Management (Google Scholar)
- 15. Science of The Total Environment (Scopus)
- 16. Journal of Civil and Environmental Research (EBSCO, Index Copernicus, ProQuest)
- 17. Heliyon (Scopus)
- 18. Journal of Geography and Regional Planning (Academia, Web of Science)
- 19. International Journal of Environmental Sciences (Scopus)

#### 4. CONFERENCES/SEMINARS AND WORKSHOPS AT WHICH PAPERS WERE READ

- 1. 1<sup>st</sup> Conference of the Arabian Journal of Geosciences (CAJG), 12–15 November 2018, Hammamet, Tunisia.
- 2. 21<sup>st</sup> EGU General Assembly, EGU2019, 7–12 April, 2019, Vienna, Austria.
- 3. Annual Conference of the Ghana Institution of Geoscientists. Geoscience, Environmental Stewardship and Technology, 13–15 August 2019, University of mines and Technology (UMaT), Tarkwa, Ghana.
- 4. 2<sup>nd</sup> International Conference on Engineering, Science, Technology and Entrepreneurship, IDL Conference Center, KNUST, Kumasi Ghana, 16–18 August, 2017.
- 5. RWESCK, 1<sup>st</sup> Regional Conference and School on Water, Climate Change and Environmental Sanitation, Accra, Ghana 28 31 August 2017.
- 6. University of Oklahoma, OU Water Conference 2017, September 18–20, 2017 in Norman, Oklahoma, USA.
- 7. IAUP 2017 Young Scientist Conference, Vienna, Austria, 5–8 July, 2017.
- 8. Proceedings of the ACEWATER2 Scientific Workshop Accra-Ghana. AU/NEPAD Networks of Water Centres of Excellence, 31<sup>st</sup> Oct 3<sup>rd</sup> Nov 2016.

#### 5. LIST OF ALL OTHER PUBLICATIONS

#### i. Published with exact references

- Ahialey, E.K., Kortatsi, B.K., Anornu, G.K., Kaka, E.A. and Dartey, G. (2015). Hydrogeochemical Processes Influencing Groundwater Quality in the Black Volta Basin of Ghana. Research Journal of Applied Sciences, Engineering and Technology, 11(9): 975-982.
- 2. Kabo-bah, A.T., **Anornu, G.K.**, Ofosu, E., Andoh, R. and Kamila, J. L. (2014). Spatial-temporal estimation of Evapotranspiration over Black Volta of West Africa Applying satellite remote sensing. *International Journal of Water resources and Environmental Engineering*, 6(12): 295-302.
- 3. Dramani, D.F., **Anornu, G.K.**, Kabo-bah, A. T. and Oduro-Kwarteng, S. (2014). Groundwater Resources Assessment in Tain River Basin of the Black Volta of West Africa. *Energy and Environment Research*, 4(3): 96-104.
- 4. Barnie, S., **Anornu, G.K.** and Kortatsi, B.K. (2014). Assessment of the Quality of Shallow Groundwater for Irrigation in the Atankwidi Sub-Basin of the White Volta Basin, Ghana. *Journal of Natural Sciences Research*, ISSN 2224-3186, 4(15): 1-10.
- 5. Barnie, S., **Anornu, G.K**. and Kortatsi, B.K. (2014). Determination of Shallow Groundwater Aquifer Geometry using Geo-Electrical Techniques in the Atankwidi Sub-Basin of the White Volta Basin, Ghana. *Journal of Environment and Earth Science*, ISSN 2224-3186, 4(4): 20-31.
- 6. Kabo-bah, A.T., Appiah-Sefah, G., **Anornu, G.K**. and Boateng, K. (2014). F-Hydra Index for Evaluating Groundwater Vulnerability in Data Scarce Regions. *Journal of Environment and Ecology*, ISSN 2157-6092, 5(1): 1-14.
- 7. **Anornu, G.K.**, and Kabo-bah, A. (2013). Evaluation of AVI and DRASTIC Methods for Groundwater Vulnerability Mapping. *Journal of Environment and Ecology*, ISSN 2157-6092 2013, 4(2): 126-125.
- 8. Gyamfi, C., Diabene, P.Y., Odai, S.N., **Anornu, G.K.** and Annor, F.O. (2013). Conflict prevention and resolution mechanisms in water resources management: A perspective from the Black Volta Basin Ghana. *International Journal of Development and Sustainability*, 2(2): 1346-1356.
- 9. **Anornu, G.K.**, Kabo-bah, A. and Kortatsi, B.K. (2012). Comparability Studies of High- and Low-Resolution Digital Elevation Models for Watershed Delineation in the Tropics: Case of Densu River Basin of Ghana. *International Journal of Cooperative Studies*, 1(1): 2012, 9-14.
- 10. **Anornu, G.K**, Kabo-bah, A.T. and Anim-Gyampo, M. (2012). Evaluation of Groundwater Vulnerability in the Densu River Basin of Ghana. *American Journal of Human Ecology*, 1(3): 79-86.
- 11. Amevenku, F.K.Y, Kortatsi, B. K. and **Anornu, G.K**. (2012). Water Resources Assessment of the Manya Krobo District. *Global Journal of Researches in Engineering, Civil and Structural Engineering*. 12(3): 33-42.
- 12. Anim-Gyampo, M., **Anornu, G.K.** and Abudu, K. R. (2012). Prediction of Potential Groundwater Over-abstraction: Case Study of Kasena-Nankana District of UE Region of Ghana. Research Journal of Applied Sciences, Engineering and Technology. 4(19): 3775-3782.
- 13. Kortatsi, B.K., Anku, Y.S.A. and **Anorn.u, G.K.** (2009). Characterization and appraisal of facets influencing geochemistry of groundwater in the Kulpawn sub-basin of the White Volta Basin, Ghana. *Environmental Geology*, 58(6): 1349-1359.
- 14. **Anornu, G.K.**, Kortatsi, B.K. and Saeed, Z.M. (2009). Evaluation of groundwater resources potential in the Ejisu-Juaben district of Ghana. *African Journal of Environmental Science and Technology*, 3(10): 332-340.
- 15. Kortatsi, B.K., Asigbe, J., Tay, C., Dartey, G.A., **Anornu, G.K.** and Hayford, E. (2008). Reconnaissance Survey of Arsenic Concentration in Groundwater in South-Eastern Ghana. *West African Journal of Applied Ecology*, Vol 13, 21-36.

- 16. Kortatsi, B.K., Tay, C.K., **Anornu, G.K.**, Hayford, E. and Dartey, G.A. (2007). Hydrogeochemical evaluation of groundwater in the lower Offin basin, Ghana. *Environmental Geology*, 53(8): 1651-1662.
- 17. **Anornu, G.K.** (1999). Prevention of groundwater contamination by industrial waste. National Academy of Sciences of Belarus, *Natural Resource*, N 2, 145-149.
- 18. **Anornu, G.K**. (1998). Can polymeric materials effectively protect groundwater from contamination? *The Journal of Water*, No 12, 9-10.

#### **Papers in Conference Proceedings**

- 1. Sackey, M.A., **Anornu, G.K.**, Kumah, Y., Kortatsi, B.K. and Antwi-Yeboah, K. (2013). Attenuation Potential of Clay Liner Carbon-in-Leach Tailings Storage Facilities A Case Study at Gold Fields Ghana Limited, Tarkwa Mine (GFGL). *Proceedings of the International Mine Water Association Annual Conference* 2013, Reliable Mine Water Technology, Vol. 1, pp 451-456.
- 2. Sackey, M.A., **Anornu, G.K.**, Kumah, Y. and Kortatsi, B.K. (2013). Cyanide Decay and Metal Speciation in Decant Ponds of Carbon-in-Leach Tailings Storage Facilities A Case Study at Gold Fields Ghana Limited, Tarkwa Mine (GFGL). *Proceedings of the International Mine Water Association Annual Conference* 2013, Reliable Mine Water Technology, Vol. 1, pp 457-461.
- 3. Abungba, J.A., Odai, S.N., Annor, F.O., Boateng-Gyimah, M. and **Anornu, G**. (2013). Impacts of Agricultural Water Management Interventions on the o... Hydrology of the White Volta River Basin: The Case of Reservoirs and Dugouts. Volta Basin Development Challenge Final Scientific Workshop. Ouagadougou, Burkina Faso, 17-19 September, 2013.
- 4. Ampadu-Mintah, A.A., Sackey, M.A., **Anornu, G.K.** and Kortatsi, B. (2012). Groundwater Quality in Tailings Storage Facility (TSF) Basin at Gold Fields Ghana Limited Tarkwa Mine Concession. Greening China and her relations with Africa Environmental sustainability in Sino-African "cooperation, FOCAC and beyond. Stellenbosch, South Africa, 17-18 May 2012.
- 5. **Anornu, G.K.** and Oduro-Kwarteng, S. (2011). The Challenges of Sustainable Urban Drainage Management in Ghana. SWITCH Paris Conference: The future of urban water Solutions for livable and resilient cities. Hosted by UN ESCO and IHP. 24th 26th January, 2011
- 6. Ofori-Agyeman, M.C., Kpordze, C.S.K. and **Anornu, G.K.** (2008). Viability of marginal yield boreholes in selected geological formations in Ghana. 33rd WEDC International conference on water and sanitation, 7 11 April, 2008, Accra. 490-494.
- 7. **Anornu, G.K.** and Kpordze, C.S.K. (2006). Impact of KNUST activities on the water quality and quantity of the Wiwi stream. Presented at the 5<sup>th</sup> College of Engineering Research Retreat. Eusbett Hotel, Sunyani, 25 28 July, 2006.
- 8. **Anornu, G.K.** (2003). Determination of equivalent diameter of subsurface drain tube with permeable material in the form of wings. Proceedings of the 3<sup>rd</sup> School of Engineering Research Retreat, Busua Beach Resort, 5 8 August, 2003, 102-106.
- Sapognikov, E.G., Anornu, G.K., Korbut, O.B. and Eliseev, A.E. (1999). Reasons and Characteristics of damages to polymeric anti-filtration systems. Proceedings of the material of the 53<sup>rd</sup> International Technical and Scientific Conference. Belarusian State Polytechnic Academy, part 3, 114-115.
- 10. **Anornu, G.K**. (1998). Modelling of filtration leakages through the retention base of a reservoir. Belarusian State Polytechnic Academy, Minsk. Dep. in VINITI 16.11.98. No 3326-V98. 10 pp.
- 11. **Anornu, G.K.** (1998) Uniform moisture transfer. Belarusian State Polytechnic Academy, Minsk. Dep. in VINITI 16.11.98. No 3327-V98. 8 pp.
- 12. Sapognikov, E.G. and **Anornu, G.K**. (1997). Filtration leakages through damaged water retention walls. Proceedings of the material of the 52<sup>nd</sup> International Technical and Scientific Conference. Belarusian State Polytechnic Academy, part 5, 83-84.

13. Sapognikov, E.G. and **Anornu, G.K**. (1995). Drainage and anti-filtration systems for prevention of groundwater contamination. Proceedings of the material of the 51<sup>st</sup> International Technical and Scientific Conference. Belarusian State Polytechnic Academy, part 1, 124-125.

### 6. RECORD OF SER'VICE TO THE COMMUNITY

## (a) Service to the University

Year	Activity
2018	<b>Team member</b> , wrote and won World Bank/Ghana Government grant of US\$5,500,000
	for the Regional Water and Environmental Sanitation Centre (RWESCK), KNUST, 2018
2017	<b>Team member</b> , Develope National Framework for Human Capacity Development for WASH Young Professionals and Technicians.' KNUST-RWESCK has a total of USD 20,000 for the study
Aug. 2018 to	Tourist Toressionals and recrimicians. KNOST-KWESEK has a total of 030 20,000 for the study
July 2019	Vice-Dean, Faculty of Civil and Geo-Engineering, KNUST, Kumasi
Aug. 2019 to date	Vice-Dean, Faculty of Civil and Geo-Engineering, KNUST, Kumasi
2019 to date	Professorial Representative, College of Engineering Board, KNUST, Kumasi
2019 to date	<b>Deputy Centre Director,</b> Regional Water and Environmental Sanitation Centre Kumasi (RWESCK), KNUST
2019 to date	Board Member, The Brew-Hammond Energy Centre, KNUST.
2019 to date	<b>Research Leader,</b> Water Resources Management Research of Regional Water and Environmental Sanitation Centre Kumasi, KNUST
2019 to date	<b>Member,</b> Committee to review the delivery of the Civil Engineering programme on the IDL platform
2019 to date	Chairman, RWESCK Scholarship committee
2019 to date	<b>Member,</b> Committee to complete work on proposed MPHIL and PHD in Disaster and prevention management, Civil Engineering Department
June, 2018	<b>Chairman,</b> Committee to investigate allegation of examination malpractices against Mr Asiedu Ennin Evans and Mr Donkor Geoffrey, BSc. Geological Engineering Degree (III) students with Department of Geological Engineering
2018 to date	Member, Faculty of Civil and Geo-engineering Board, KNUST
2019 to date	Member, RWESCK programmes Accreditation Committee
2016 to 2018	<b>Coordinator</b> , Regional Water and Environmental Sanitation Centre Kumasi (RWESCK) PhD programmes
2016 to date	Chairman, College of Engineering, KNUST Laboratory Management committee
2017 to date	Hall Fellow, Unity Hall, KNUST, Kumasi
2017 to date	Acting HOD, In the absence of the substantive HOD
2016 to date	<b>Head</b> , Water Resources Section, Civil Engineering Department, KNUST

## (b) Service to the Nation

Year	Activity
Jan. 2020 to date	External Examiner for Civil Engineering programme, Central University College, (CUC)
2019 to date	Council Member, Akatsi College of Education Council
2018, 2019	<b>External Assessor</b> of staff promotion application from Ghana Atomic Energy Commission
Sep. 2019	<b>External Examiner</b> of PhD thesis, University of Energy and Natural Resources (UENR), Sunyani
Nov. 2018	<b>Panel Member,</b> re-Accreditation of HND in Civil Engineering programme at the Accra Technical University
2017 to date	<b>Board Member and elected as Chairman</b> , Adaklu Senior High School Governing Board, Adaklu District
2017	<b>External Assessor</b> of staff promotion application from the Bolgatanga Polytechnic
Nov. 2017 and	Panel Member, re-Accreditation of HND in Civil Engineering programme at the
Aug. 2016	Bolgatanga Polytechnic, Wa
2016 to 2018	<b>Board Member,</b> KNUST Representative on Princefield University college Academic Board
2016 to date	Verification of HND marked scripts
2016 to date	<b>External Moderator/Examiner,</b> Polytechnics/Technical Universities HND examination questions
Aug. 2016 and Sep. 2016	<b>External Assessor</b> of staff promotion application from the Takoradi Polytechnic
2014 to date	<b>External Moderator,</b> Koforidua Technical University Bachelor of Technology in Civil Engineering courses

## (c) Service to the International Community

Year	Activity	
2019	Resource Person, Training workshop on borehole drilling and construction, Kaduna, Nigeria	
2010	Reviewer, Groundwater for Sustainable Development	
2019	Reviewer, Environmental Pollution	
2017	Reviewer, Asian Journal of Environment and Ecology	
2017	Reviewer, Current Journal of Applied Science and Technology	
2017,	Paviouer Polish Journal of Environmental Studies	
2019	Reviewer, Polish Journal of Environmental Studies	
2013 to	Marshau Stanning Committee African Croundwater Naturals (ACNA Nat)	
date	Member, Steering Committee, African Groundwater Network (AGW-Net).	

## **Membership of Professional Body**

2015 to date	Member Ghana Institution of Engineers (MGhIE)
2008 to date	Member African Groundwater (MAGW-Net)

2005 to date Member International Union Geodesy and Geophysics IUGG-Ghana (MIUGG)