

GPT

April
2024

Ghana Petroleum Times

An Annual Section Magazine



2023 RECIPIENT OF THE SPE
D&I Champion of the Year!



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GPT

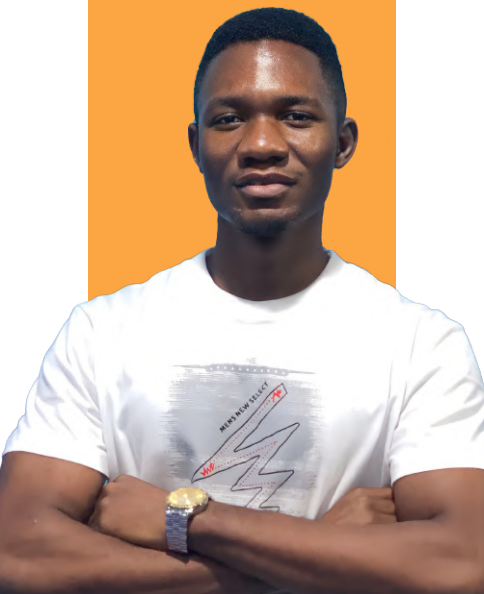
Ghana Petroleum Times
An Annual Section Magazine



GPT, What is it?

The Ghana Petroleum Times (GPT) is the annual magazine of the SPE Ghana Section, a professional organization for those in the oil and gas industry. Launched just last year, the GPT serves as a way to connect members and keep them informed about the latest developments within the section.

This publication highlights achievements, upcoming events, and the collaborative efforts between student chapters and professional members. It's essentially a one-stop shop for anyone interested in what the SPE Ghana Section is up to and how they can get involved.



Nicholas Abakah Eshun
Editor

EDITOR'S REMARKS

Welcome to the Second Edition of the Ghana Petroleum Times!

We're thrilled to bring you the latest edition of Ghana Petroleum Times, the annual magazine of the SPE Ghana Section. Think of it as your inside look at all the amazing things happening in our section.

Last year, under the exceptional leadership of Riverson Oppong PhD., the Section achieved remarkable milestones and global recognition. Dr. Oppong set a high bar, and we are fortunate to have Sheena Owusu-Ansah as our current Section Chair. Mrs. Owusu-Ansah, a versatile leader, has seamlessly built upon the strong foundation laid by her predecessors. Within this magazine, you'll discover the remarkable results of her leadership, evident in the numerous programs and events organized collaboratively with the dedicated section officers and volunteers.

This year has also witnessed a surge in activity within the student chapters, with the inauguration of two new chapters. The balance between the professional and student membership has flourished through joint programs designed to foster collaboration and knowledge exchange.

Trekking the path of the previous administrations, the 2023/24 administration has consistently delivered impactful programs. The energy, enthusiasm, and dedication of our officers and members are truly inspiring, and we have no doubt that the future holds even more exceptional initiatives designed to propel both personal and professional growth.

To amplify the impact of the SPE Ghana Section and its offerings, we encourage all student members to register with their school chapters and professional members to join the section itself. By becoming a registered member, you unlock the true benefits of the Society of Petroleum Engineers, gaining access to a network of industry experts, invaluable resources, and unparalleled professional development opportunities.

We invite you to spread the word! Tell a friend about SPE and the numerous advantages that await them. Consider taking on an officer role as well; it is a fantastic way to contribute meaningfully to the section's continued success.

So, buckle up and delve into this edition of the Ghana Petroleum Times. We are confident that you'll find its content informative and inspiring.

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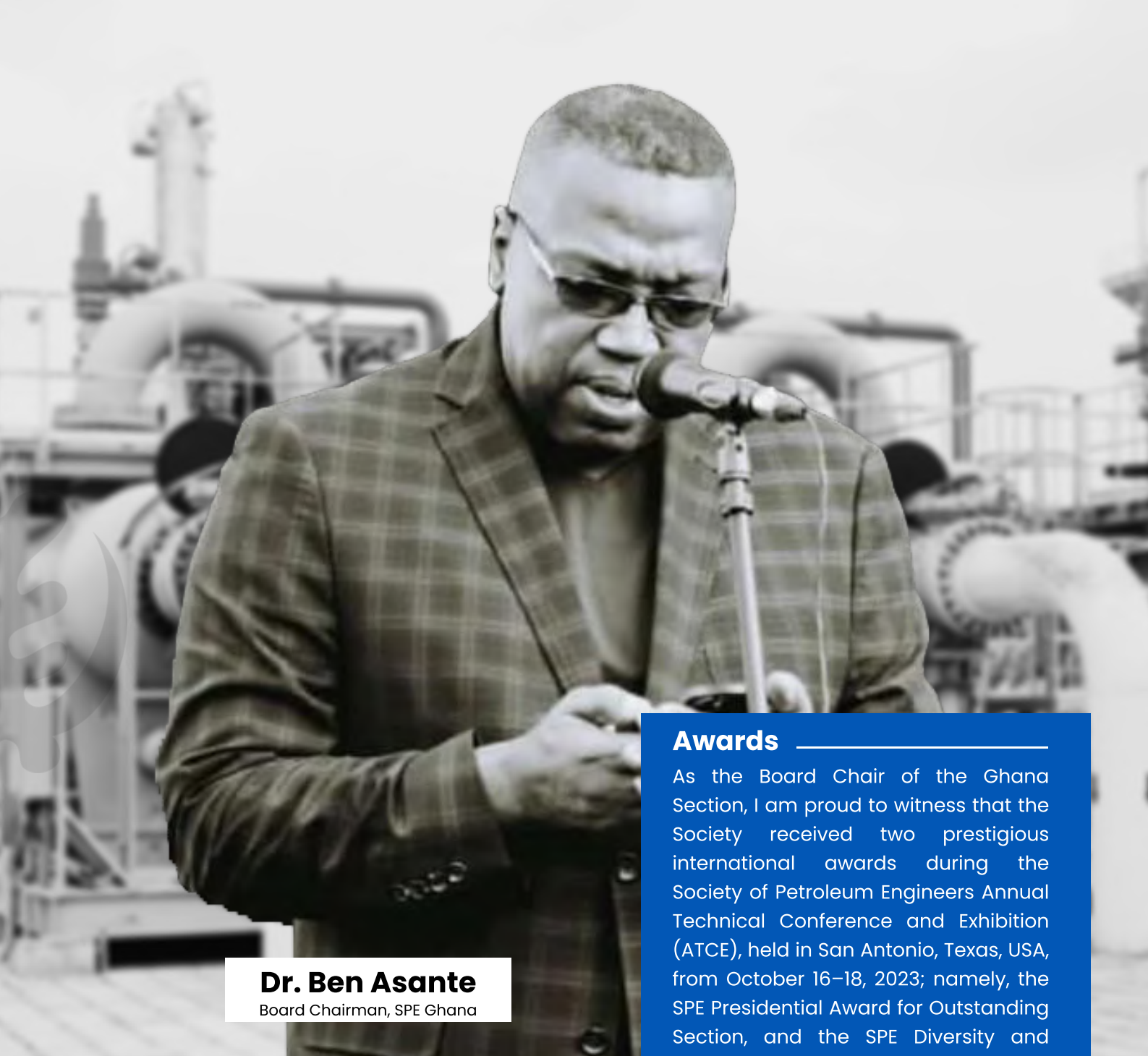


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Dr. Ben Asante
Board Chairman, SPE Ghana

Awards

As the Board Chair of the Ghana Section, I am proud to witness that the Society received two prestigious international awards during the Society of Petroleum Engineers Annual Technical Conference and Exhibition (ATCE), held in San Antonio, Texas, USA, from October 16–18, 2023; namely, the SPE Presidential Award for Outstanding Section, and the SPE Diversity and Inclusion Champion of the Year.

SOLIDARITY MESSAGE TO SPE GHANA

I am delighted to address the SPE community for the second time in the second edition of the SPE Ghanaian Petroleum Times (2024).

The past two years have been eventful for all members of the society, marked by increased membership growth, international recognitions, and significant impacts made through our various activities including trainings, events, and impact projects.



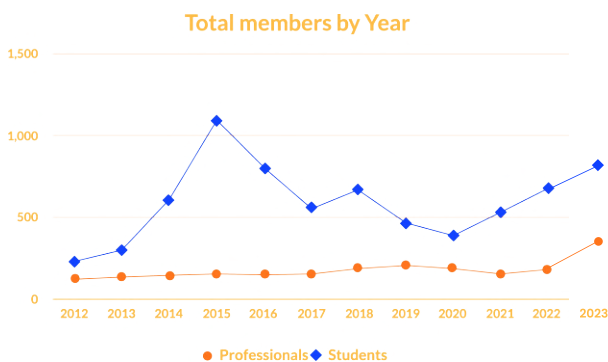
Impact Activities

In line with these awards and several other recognitions were commendable activities, including the spectacular Annual Students Congress 2023, various educative technical and non-technical sessions, donations to flood victims in the Lower Volta, free short courses training, and collaboration on Run For Cure Breast Cancer Awareness Campaign, amongst several others.



Membership Growth

SPE Ghana has witnessed a significant growth in the past 2 years: 54% and 68% membership growth in 2022 and 2023 respectively. Additionally, membership retention recorded 75% and 80% in both years respectively, while New Member Retention in 2023 was 82%. The section anticipates further growth as we actively campaign for membership sign-ups and renewals. I take this opportunity to encourage all old members to renew their membership and all members to join the campaign to sign on more members and enjoy the perks that come with signing up new members.



Contributions

Since its inception, SPE Ghana section has been instrumental in defining the energy landscape of Ghana. With numerous brilliant minds in the society, we have positively contributed to shaping energy policies and participating in ongoing discussions about the state and future of energy. The section has also actively collaborated with other sections across the African continent through mentorship, distinguished lectures, inauguration of new sections, and knowledge sharing.

On this note, I encourage all society members across the globe to participate in the upcoming Ghana International Biennial Summit and Exhibition (GH-BISE) 2024, which will engage in discussions about the future of energy for Africa.

True Leadership and Volunteerism

I sincerely appreciate the spirit of volunteerism and excellence demonstrated by both officers and members in progressing the organization—selfless efforts that have led to tangible increased growth of the society. More of that is needed in the year ahead to increase impact and recognition.

Ghana's Energy Sector

Ghana's energy sector clearly shows promise, with over 10 years of experience in the oil and gas business, marked by strides in exploration, discoveries, and refining. The recent inauguration of the Sentuo Refinery reflects the country's progress in its investment in the sector. Also, the increasing popularity of renewable energy sources aligns with the global effort to combat climate change, sparking conversations aimed at positioning Ghana to optimize various energy sources for economic efficiency. However, challenges persist, including production undercapacity of refineries leading to low returns on investments, despite the country's wealth of oil reserves. Slow adaptation of renewable energy sources also poses a challenge in the mentioned industry. We believe addressing these issues will lead to an efficiently integrated energy economy for our country.

True Leadership and Volunteerism

I urge SPE members to enhance their skills in the oil and gas sector by staying informed about industry advancements and pursuing continuous learning. I offer to share my experience and facilitate interactive sessions to support members' success as the board chair of SPE Ghana, and encourage all senior professionals to do the same.

On behalf of the board and management of the SPE Ghana Section, I wish all members a successful 2024. We hope to see more efficient programs and activities aimed at developing members and making a positive impact in the energy industry, the country, and beyond.

SECTION DIRECTOR'S REPORT

SPE GHANA SECTION ANNUAL GENERAL MEETING AND AWARDS CEREMONY, 2023

The SPE Ghana Section Annual General Meeting convened in August 2023, was marked by a spirited atmosphere of camaraderie and dedication. Led by the chairman, the event commenced with heartfelt welcomes and expressions of gratitude to attendees, recognizing their pivotal role in the collective progress of the organization.

Distinguished guests, including esteemed Africa Regional Directors, were introduced, acknowledging their significant contributions to the petroleum engineering sector. Amidst accolades, the Ghana section stood proud as a recipient of the prestigious presidential award, a testament to its unwavering commitment to excellence.



The transition of leadership was seamlessly orchestrated, with the outgoing president extending congratulations and words of wisdom to the incoming leadership. Emphasizing the need to build upon the foundation of success, the outgoing president urged the new leaders to continue serving humanity with dedication and innovation. Professor W. Meary, the immediate past president, echoed these sentiments, offering goodwill and announcing a generous initiative—a free short course in petroleum economics for graduating seniors—demonstrating the organization's commitment to nurturing future talent. Throughout the meeting, a myriad of accomplishments and

initiatives were celebrated, underscoring the Ghana section's dynamic spirit and proactive approach. From a significant surge in membership growth, attributed to strategic engagements and community outreach programs, to the commendable efforts of the Diversity and Inclusion (D&I) Team in fostering a culture of inclusivity and mentorship within the industry—the event showcased the organization's multifaceted endeavours.

Technical sessions and workshops served as platforms for knowledge exchange and professional development, covering various pertinent topics ranging from mental health awareness to the role of natural gas in Africa's energy transition plan. Collaborative efforts with other African sections underscored the organisation's commitment to regional cooperation and knowledge sharing, while community initiatives, including mentorship programs and beach clean-up exercises, underscored its dedication to societal impact beyond the industry.

A highlight of the meeting was the recognition of exemplary individuals through various awards, honouring their outstanding contributions to the organization. From technical excellence to long-term dedication, these accolades served as beacons of inspiration, motivating members to strive for excellence in their respective fields.

As the meeting drew to a close, reflections on succession planning and leadership development permeated the discussions, emphasizing the importance of grooming future leaders and infusing fresh perspectives for sustained growth. The event concluded on a note of camaraderie and optimism, with participants pledging to continue the organization's legacy of excellence and service to the petroleum engineering community.

Overall, the SPE Ghana Section Annual General Meeting of August 2023 epitomized a collective commitment to excellence, innovation, and community impact—a testament to the organization's unwavering dedication to advancing the petroleum engineering sector in Ghana and beyond.

ENERGY CAREER SEMINAR, 3RD EDITION



The current Section Director, Dr Riverson Oppong, Ing. Celestina Yaaba Kissi, former Section Chair of the Society of Petroleum Engineers (SPE) Ghana Section, participated in the third edition of the energy career seminar held in Accra, alongside Dr. Eddy Ifeanyi Okoh, current Section Chair of SPE Warri Nigeria Section, Dr. Riverson played an instrumental role in representing SPE International at the event. The seminar aimed to provide guidance and insights to budding engineers seeking to establish themselves in the dynamic energy industry.

During the seminar, Dr Riverson and Dr Okoh conducted an engaging educational session, offering aspiring young professionals valuable knowledge and insights into the multifaceted world of energy. Dr. Riverson, drawing from his own unique experiences, emphasized the importance of skill development and adaptability in navigating the ever-evolving landscape of the energy sector. He underscored the significance of staying informed and aligned with emerging innovations and industry trends to remain competitive and relevant in the field.

Furthermore, Dr. Riverson articulated the imperative for Africa to capitalize on its vast energy resources as a means to address energy poverty and foster sustainable development. She highlighted the pivotal role of the younger generation in embracing and driving the energy transition, urging them to actively align themselves with this paradigm shift towards cleaner and more sustainable energy solutions.

Expressing gratitude for the opportunity to contribute to the seminar, Dr. Oppong extended thanks to Cubica Energy and the Energy Quest Foundation for inviting him to speak at the event. He expressed satisfaction in knowing that the informative session resonated deeply with the future leaders in attendance, emphasizing that the future of the energy industry lies in the hands of passionate, skilled, and determined individuals. He concluded by encouraging young professionals to seize the opportunity to shape a brighter and more promising tomorrow through their dedication and commitment to excellence in the energy sector.

PRESIDENTIAL AWARD FOR OUTSTANDING SECTION OF THE YEAR, RECEIPT BY DR RIVERSON ON BEHALF OF SPE GHANA SECTION,



The Society of Petroleum Engineers (SPE) Ghana Section reflects on a year of exceptional achievements and accolades, signalling a period of perpetual elevation, excellence, and fulfilment. The section proudly announces its remarkable recognition on a global scale, culminating in the receipt of the prestigious presidential award for outstanding section of the year at the SPE presidential luncheon.

This coveted award considered the ultimate honour within SPE, is reserved for the crème de la crème of SPE sections worldwide, representing the top 10% of exemplary performers. The accolade serves as a testament to the section's unwavering dedication to fulfilling SPE's mission, serving its members, and exemplifying excellence in all endeavours.

The receipt of the presidential award fills the section with an overwhelming sense of pride and accomplishment. It stands as a tribute to the tireless efforts and commitment of every member of the Society of Petroleum Engineers - SPE Ghana Section, who have worked tirelessly to promote the section's formidable presence and advance its mission.



Expressions of profound gratitude are extended to the Society of Petroleum Engineers International for bestowing this stellar award upon the section, recognizing its outstanding contributions and achievements. The recognition serves as a constant impetus for the section to persist in its diligent efforts to foster diversity and inclusion within the energy sector across the African region.

Looking towards the future, the section eagerly anticipates another promising year, brimming with trailblazing activities, international laurels, growth, and continued excellence. Buoyed by the honour of the presidential award, the section remains steadfast in its commitment to serving its members, promoting industry best practices, and driving positive change within the energy sector.

SPE DIVERSITY & INCLUSION 2023 CHAMPION OF THE YEAR RECEIPT BY DR RIVERSON ON BEHALF OF SPE GHANA SECTION.

The Society of Petroleum Engineers (SPE) Ghana Section celebrated a momentous achievement at the Annual Technical Conference and Exhibition (ATCE) with the receipt of the esteemed SPE Diversity & Inclusion 2023 Champion of the Year award. The recipient, acting in the capacity of a section director, expressed profound gratitude and pride for the international recognition bestowed upon the SPE Ghana Section.

The award symbolizes the section's unwavering commitment to advancing diversity and inclusion within the energy industry, aligning closely with SPE International's vision. The recipient acknowledged the collective efforts of the SPE Ghana family in achieving this remarkable feat, highlighting the pivotal role played by the SPE Ghana D & I committee. Under the exceptional leadership of Sheena Owusu-Ansah, the committee diligently pursued initiatives aimed at fostering a culture of diversity and inclusion within the section.

The award serves as a testament to the dedication and hard work of every member of the SPE Ghana Section, reflecting their tireless efforts to promote an environment of respect, equity, and belonging. The recognition also serves as a source of motivation to continue championing these values and driving positive change within the energy industry.

Special gratitude was extended to SPE Diversity and Inclusion (D&I) for bestowing this prestigious award and for their unwavering support and guidance. The SPE Ghana Section reaffirmed its commitment to aligning with SPE's vision, striving to break barriers, inspire change, and lead the way towards a brighter and more inclusive tomorrow.

“Natural Gas Commercialization, Pricing, and Negotiations” BY DR RIVERSON OPPONG, SPE AFRICA TECHNICAL LECTURE SERIES, NAMIBIA



The SPE Africa Technical Lecture Series held in Namibia featured an enlightening session where Dr, Riverson Oppong, SPE Ghana Section Director focused on "Natural Gas Commercialization, Pricing, and Negotiations". Presenting on this theme alongside other distinguished lecturers, where he underscored the immense potential of the African continent to harness its abundant natural gas resources as a pivotal component of economic growth and environmental sustainability amidst the ongoing energy transition.

During the session, Dr. Riverson delivered pertinent insights into natural gas markets' multifaceted dynamics, including factors influencing contracts, pricing mechanisms, and negotiation strategies. Real-world case studies and lessons learned from successful gas projects across the globe were shared, providing valuable insights for industry professionals.

The session facilitated thought-provoking discussions, with attendees engaging in dialogue that spanned diverse perspectives and innovative ideas. The exchange of knowledge and experiences contributed to a deeper understanding of the challenges and opportunities inherent in natural gas commercialization.

Looking ahead, there is anticipation for continued collaborations and forward-thinking discussions aimed at driving advancements in the dynamic realm of energy. The session catalyzed future initiatives aimed at harnessing the potential of natural gas to propel sustainable development and prosperity across the African continent.

United Nations Economic Commission for Africa event – “Investing in Energy Transition, Food Security and Regional Value Chains for Sustainable Development in North and West Africa- Dr Riverson Oppong (Section Director)”



Dr. Riverson Oppong, representing the Ghana Energy Transition Committee, participated in the United Nations Economic Commission for Africa event held at the Alisa Hotel in Accra, Ghana, on November 1, 2023. The event was themed "Investing in Energy Transition, Food Security, and Regional Value Chains for Sustainable Development in North and West Africa."

This significant gathering convened delegates from thirty-two United Nations member countries, providing a crucial platform for fostering discussions on Africa's sustainable energy future. During his presentation, Dr Oppong meticulously elaborated on Ghana's energy sector status and strategic initiatives aimed at diversifying the energy mix, combating energy poverty, and catalyzing economic growth. He stressed the

importance of tailoring transition strategies to each African nation's unique needs, acknowledging geopolitical, technological, and financial challenges as impediments, especially for countries like Ghana.

Dr Oppong's presentation underscored the imperative of sustainability in the energy transition, highlighting affordability, accessibility, and availability as key factors. Noteworthy was Ghana's significant progress, with 38% of electricity generated from hydro and 55% from natural gas, reflecting its environmentally friendly approach. The collaborative efforts between Ghana's Energy Transition Committee and the government were emphasized, focusing on initiatives such as adopting condensed natural gas for transportation, carbon capture, utilization, and storage, as well as sustainable aviation fuels, all aimed at fostering a greener future.

The event facilitated engaging dialogues with other members of the Intergovernmental Committee of Senior Officials and Experts (ICSOE) for North and West Africa, providing valuable insights and perspectives. Dr Riverson Oppong extended his gratitude to the United Nations Economic Commission for Africa for organizing this pivotal event, marking a significant stride towards a greener and more sustainable energy future for Africa.



Riverson Oppong, PhD
SPE Ghana Section Director

MESSAGE FROM SPE GHANA SECTION CHAIR

Sheena Owusu-Ansah



My honourable professional and student members, I'm excited to share with you all, how exciting the 2023/2024 board year has been so far. The new board year started off with newly inducted Section officers holding a strategic board meeting to put together a comprehensive plan by all committees for the year ahead. These plans were presented to the Section board of directors and were duly accepted. Indeed, we are fully on-course in achieving all our set targets.

One of the key targets that I am particularly proud of is the successful induction and recognition of two new Student Chapters by SPE International. I say a hearty congratulations to Takoradi Technical University and Kumasi Technical university for their official recognition. This brings the total number of our student chapters in Ghana to eight (8). We look forward to adding more chapters in the coming months.

Our dedication to knowledge-sharing and professional development has been exemplified through the fantastic number of events and programs, from our monthly technical sessions, quarterly workshops, D&I series, Career guidance series. Big news!. Are you ready for SPE Ghana? Coming up is the SPE Ghana tech Talk and Energy Buzz Podcast. All these provide invaluable opportunities for growth and professional advancement. I encourage all members to be actively involved in the programs we plan in order to get their full benefits.

The strength and growth of our Section is dependent on our members. I would like to use this opportunity to express profound gratitude to all members who have renewed their membership and to also warmly welcome all the new ones who joined us this board year. And to those yet to renew their memberships, I encourage you to do so in order to enjoy the full benefits of SPE.

Our membership keeps growing from strength to strength, with the number of students in April 2024 being 1,054, a 23.6% increase between December 2023 to April 2024. Our professional membership have also steadily risen with a monthly 19% increase. Our gratitude to all our supporting companies who encourage their staffs to sign-on by paying for their membership fees. We implore other companies to follow these footsteps giving their employees the vast networking and learning opportunities SPE offers.

At SPE, collaboration is encouraged as this fosters innovation. As a Section, we have witnessed remarkable collaborations and partnerships both locally and internationally with within and outside the SPE fraternity. Notable among these was the collaboration with the Ghana National Gas Company where a 4- day virtual field trip was held for all our professional and student members. Through these collaborative efforts, we were also able to have some of our student chapters go on in-person workshop field trip to companies like SLB, Halliburton, Technip FMC, Baker Hughes/General Electric, Wayoe Engineering Construction, Orsam Energies among others.

Within Ghana but outside of SPE, collaborations were held with the Earth Science department of the University of Ghana., the Ghana Upstream Petroleum Chamber among others. The Section was also a technical partner to the Africa Energy Technology Conference.

Outside Ghana, we also collaborated with other Sections, Chapters and Organization. We have also collaborated with the newly revamped Tunis Section for a Supply chain Lecturer, a round table Safety talk about staying safe during the yuletide with the Benin Section, we've had collaborations with various sections such as Vienna Basin, Maputo, Warri, Port Harcourt, Tanzania, Namibia, Uganda etc. Another important collaboration was with the lean In Equity & Sustainability, a community of more than 80,000 women from 183 countries across the globe, giving women peer mentorship and empowering women to be unapologetically ambitious and achieve them.

Collaboration across our student chapters have been a delight to witness and I especially applaud the collaborations between the student chapter of the Kwame Nkrumah University of Science and Technology and the Kumasi Technical University.

One of my happy moments this year, was joining the University of Mines and Technology, UmaT Chapter, in launching their 10th anniversary of being a chapter, as a keynote speaker during the launching of their 10th year anniversary of being a chapter under the theme "A decade of excellence: honouring the past, celebrating the present and chattering the future". The UMat Chapter no doubt stands tall as a beacon of knowledge and student development. Not only has the chapter grown impactful, it has also performed exceptionally well across the continent. Congratulations to UmaT once again on your phenomenal journey thus far!! Your dedication, passion and commitment has set a benchmark of excellence for other student chapters to emulate!!

We have also successfully hosted two Distinguished Lectures on "How Oil and Gas Competencies are Shaping Low Carbon Energy Technologies" by Dr Rita Okoroafor and "Are You Culturally Savvy? How to Excel in a Multicultural Industry" by Patricia E. Carreras.

Our commitment to diversity, inclusivity, and social responsibility is evident in our health walk, and health screening of our members, cancer walks, donations to help the aftercare of cancer patients and donation to flood victims of the lower volta dam spillage.

With a few months for this board year to come to an end, I encourage all professionals and student members to be more actively involved in section activities, collaborations across different countries and continents.

Coming up is the second edition of the SPE Ghana Biennial International Summit & Exhibition on Monday 20th May 2024, at the Alisa Hotel, North Ridge, where we will delve into how we can embrace innovation to redefine the future of Africa's Oil and Gas industry. On the 21st of May, the Ghana Section has the singular honour of also hosting for the very first time, all the other Africa Section Officers in a Workshop. In attendance will be Young Professionals from about eighteen (18) other Sections across Africa. This will be crowned in the evening with the Africa Regional Gala Dinner and Awards night.

We've worked hard, we deserve to let down our hairs, network and have some fun!!!





The Society of Petroleum Engineers (SPE) is a not-for-profit professional association with more than 119,000 members in 138 countries engaged in the exploration and production of oil and gas and related energy resources. SPE is a key technical and professional resource providing opportunities to exchange information at in-person and online events and through training, publications, and member programs. SPE maintains offices in Calgary, Dallas, Dubai, Houston, Kuala Lumpur, and London



Starting as a group that operated under the American Institute of Mining Engineers (AIME) during the early 1900s, SPE has expanded into an autonomous not-for-profit worldwide organization, comprising over 119,000 members located in 138 countries.

SPE has several in-house brands including One Petro, Energy Stream, Petro Wiki, Energy for Me, SPE Connect, and many more.

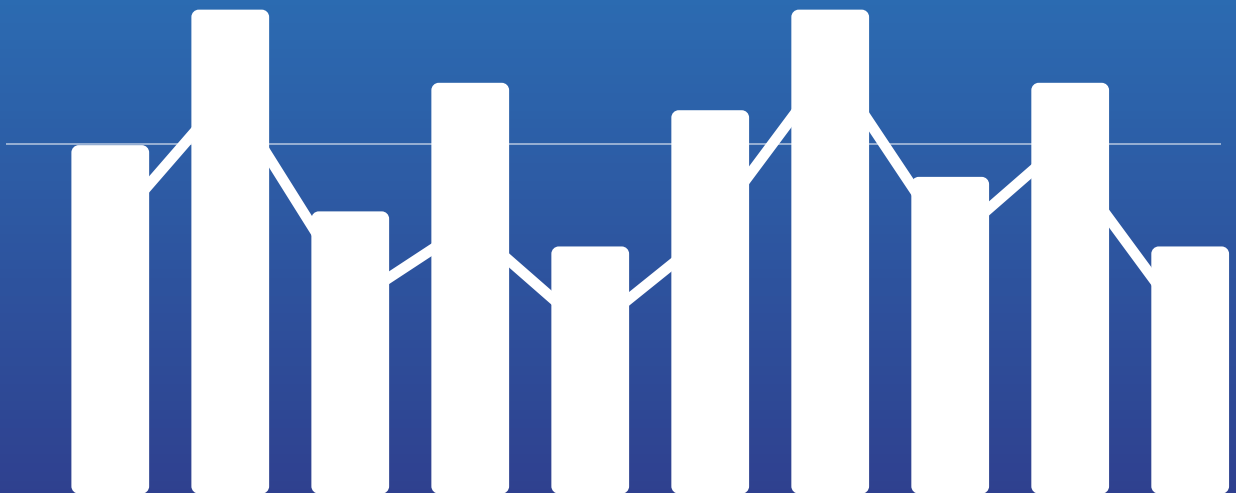


GET CONNECTED.
SPE SERVES
124,800 MEMBERS
IN 134 COUNTRIES.
JOIN SPE TODAY!



WHO WE ARE

MEMBERSHIP REPORT



A Word From Membership Committee

The membership mix of SPE Ghana Section has grown from strength to strength owing to the excellent programming and recruitment efforts from the section officers and membership committee.

The Student membership of SPE Ghana section has grown by 23.56% to 1054 as at April 2024 from 853 as at December 2023. Month on month analysis indicates a 19% increase in professional membership from 2023 April reported figure of 263. There is the expectation that more professional members will renew in the next few months as engagement will increase in the period.

Month on month performance continues to be encouraging as student membership as at April 2024 is almost double April 2023 (631). Student membership has grown to 853 after steady growth from 387 in 2020 to 756 in 2022 owing to the approval of various student chapters as well as improved student specific engagements through efforts of Student Liaison section officers and other section officers amongst others. Student Chapters within Kumasi Technical University (KTU) and Takoradi Technical University (TTU) have since become recognised Student Chapters after meeting all requirements.

There has been a steady growth in professional membership for SPE Ghana from 208 members in 2019 to 406 as at December 2023. The improvement in the quality of membership engagement as well as aggressive recruitment drive has increased membership numbers. The launch of bulk renewals by some companies in Ghana improved the membership outturn. As at April 2024, professional membership was 314, 19% more than same period in 2023.

MEMBERSHIP ENGAGEMENT

The Section has ensured membership engagement through various media. The use of Technical Sessions, Networking Sessions and Specialised Training for professional members. Student members benefited from virtual internships, career and counselling sessions and in-person field trips. The primary technical disciplines are spread across, management, health, safety, environment and sustainability, production and operations and reservoir engineering.

RENEWAL & REACTIVATION AGENDA

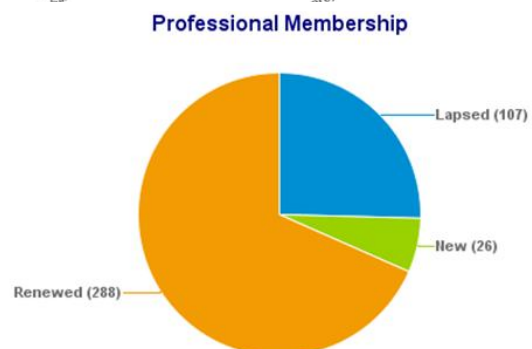
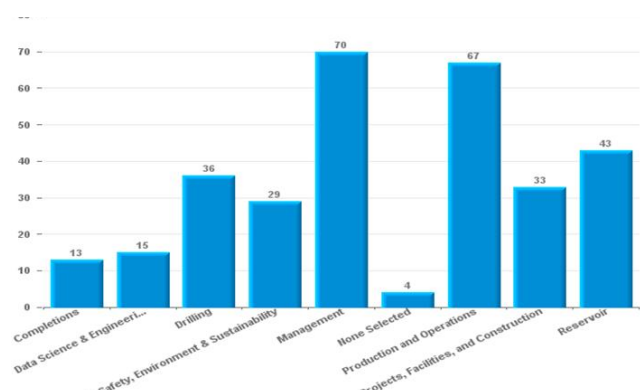
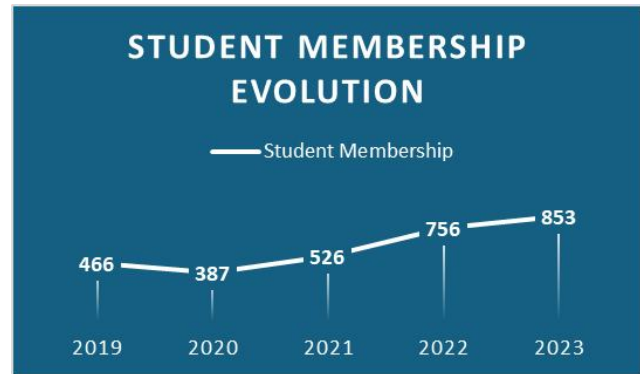
The Section remains committed to reactivating lapsed memberships before the end of year. There have been weekly renewal prompts sent to lapsed memberships whilst the section is hoping to organise networking mixers for some members as part of efforts to ensure renewals.

Membership engagements are expected to increase in the next few months as social, mental wellbeing and

technical concerns of our members will be prioritised. As we embrace the Energy Transition, SPE Ghana Section is focused in the pursuit of members across the Energy Industry as a whole and not restrict to just Petroleum Engineers.

CONCLUDING REMARKS

Nonetheless, SPE Ghana Section remains committed to ensuring wholesome experiences for all members. The launch of a myriad of events in the coming months will benefit the members whilst reattracting all lapsed members to reactivate their membership. An inclusive SPE will certainly see further growth within our membership as well as improved participation across the various sections within the society.





FLAGSHIP EVENT



**Technical
Workshops**

**Paper
Contest**

**Tree Planting
Exercise**



SPE Africa
Annual Students'
Congress **2023**

SPE AFRICA REGIONAL STUDENTS' CONGRESS:

Empowering the Next Generation of Leaders in Global Energy Transition



The energy landscape is undergoing a remarkable transformation, and the role of Africa in the global energy transition is becoming increasingly significant. Recognizing this, the Society of Petroleum Engineers (SPE) organized the inaugural Africa Annual Students' Congress 2023, under the auspices of the African Regional Director, Mrs. Oghogho Effiom. The congress, with the theme "The role of Africa in Global Energy Transition: The Student's Perspective," took place from the 8th to the 10th of May 2023 and brought together students from various African countries to discuss, learn, and network.

Participating countries included Congo, Chad, Ghana, Kenya, Namibia, Nigeria, Tanzania, Uganda, and Mozambique, reflecting the diverse representation and commitment to the energy sector across the continent. Ghana had the honor of hosting the congress, which was broadcasted virtually, allowing for global participation and engagement.

The congress spanned three days, each packed with informative and engaging activities. The first day of the congress began with opening remarks by Dr. Ben Asante, Board Chair of SPE Ghana Section, and Dr. Riverson Oppong, Chairperson of SPE Ghana Section. Their insightful words set the tone for the congress, emphasizing the significance of the students' perspectives in shaping the future of Africa's energy industry.

Mrs. Oghogho Effiom, the Director of SPE Africa Region, delivered the keynote speech, offering valuable insights into the role of Africa in the global energy transition. Her address inspired the students to embrace the opportunities and challenges that lie ahead and encouraged them to be catalysts for change.

A panel discussion on "The role of Africa in Global Energy Transition: The Students' Perspective" provided a platform for students to

share their ideas and insights, fostering a collaborative environment. The discussion, moderated by Ama Sarpong, Deputy SPE D&I Chair, saw the participation of Mr. Victor Sunu-Attah, GNPC; Mr. Kwaku Boateng, PC; Mr. Ben Boakye, ACEP; Mr. Theophilus Ahwireng, MODEC; Dr. Ishmael Ackah, PURC; and Mr. David Ampofo, GUPC.

The day also featured presentations on the art of delivering outstanding presentations by Mr. Ola Davi and the power of self-esteem by Mr. Temitope Oshuntuyi, equipping the students with valuable skills for their future endeavors. The day's event was climaxed with the Students Paper Contest amongst undergraduate students from the various participating countries. After the contest, Maame Aba Kwagyiri from the University of Mines and Technology, Ghana, emerged the winner.

The second day commenced with a keynote presentation by Mrs. Cynthia Lumor, Deputy MD of Tullow Ghana Limited, who shared her experiences and insights on building and sustaining a career as a woman in a male-dominated industry. This session highlighted the importance of diversity and inclusion in the energy sector and inspired female students to pursue their ambitions fearlessly.

A panel discussion moderated by Ms. Rubabat Oseni, GNGC, on "Building and Sustaining a Career as a Woman in a Male Dominated Industry" further explored the challenges and opportunities for women in the energy sector. Dignitaries on the panel included Mr. Josh Okpalanne, VITOL; Mrs. Sheena Owusu-Ansah, SPE Ghana D& I Chair; Mrs. Oghogho Effiom, Shell; Mrs. Nidra Araba Yebua, SLB; Ms. Ida Yeboah; and Mr. Emmanuel Ametsi, GAIM.

The second day also witnessed graduate students engaging in paper contests, providing a platform for advanced research and academic excellence. Of the four students, Alexander Ofori Mensah from the University of Mines and Technology, Ghana, came top, giving UMaT two wins at SPC.

The Petrobowl Competition, also organized on day two, Mbarara University of Science and Technology, Uganda, and University of Mines and Technology, Ghana, crowned as winners. This earned them the opportunity to join the three victorious Nigerian schools in representing Africa at the international level.

The final day of the congress; 10th May 2023 featured a keynote presentation by Mr. Samuel Nii Adjei, HR Manager at Ghana Gas, who enlightened the audience on the topic of "Standing out Among Your Peers." The session emphasized the importance of professional development and unique value propositions in a competitive industry.

A panel discussion on "**Standing out Among Your Peers**" further delved into strategies and insights to distinguish oneself in the energy sector. The distinguished panelists who made this successful were Dr. Victor Ekpenyong Kenyon International; Mr. Benjamin Buabeng, GNGC; Mrs. Anita Bonney, Deep Ocean; Ms. Lesley Arthur Asiedu, CUBICA Energy; Ms. Eve Kilonzi, Kenya; and Mr. Joseph Willie Amoah, PHDC. The discussion was facilitated by Mr. Derrick Klutsey, Tullow Ghana.

The congress also featured a career fair, enabling students to interact with prominent petroleum companies and explore potential career opportunities. There was also an Energy4me initiative, spearheaded by Lou Jean Rodriguez from Dubai, which provided valuable experimental resources and workshops, empowering high school students with knowledge about energy.

The congress did not overlook the significance of environmental sustainability. A tree-planting exercise around the University of Ghana Campus highlighted the commitment of SPE to mitigating climate change and promoting a greener future.

To conclude the congress, a grand dinner and awards night were held, recognizing exceptional student achievements, outstanding research papers, and overall contributions of individuals and organizations to the event. This celebration of talent and dedication served as a motivation for students to continue their pursuit of excellence in the energy sector.

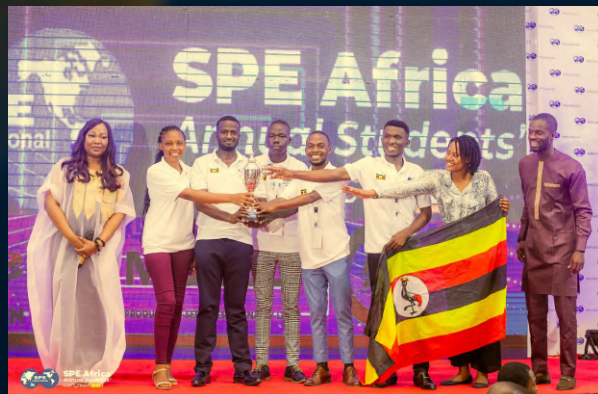
The success of the congress would not have been possible without the generous support of the sponsors and collaborators. Ghana Gas, MODEC Production Services Ghana JC Ltd, Kenyon International, Africa Center for Energy Policy, Ministry of Energy and Mineral Development Uganda, Vitol, Sonangol, Gecric Integrity Wayoe Engineering and Construction Limited were among the sponsors, recognizing the importance of empowering the next generation of energy leaders. CEIPS, CUBICA Energy, and Relu Creatives served as collaborators, contributing their expertise and resources to enrich the event. The media partners, BF&T, and Offshore Africa played a vital role in ensuring the congress's reach and visibility.

Ghana's maiden hosting of the SPE Africa Regional Students' Congress was a resounding success, thanks to the collaborative efforts of students, industry professionals, sponsors, and collaborators. By providing a platform for knowledge-sharing, networking, and inspiration, the congress has played a vital role in nurturing the next generation of energy leaders in Africa. With their enthusiasm, skills, and newfound insights, these students are well-equipped to shape Africa's future in the global energy transition.





AWARDS



DOWN **MEMORY** LANE



Throwback 2007

Terry Cobbson on a 1mth internship on the Mr Louie Platform at Saltpond while in the 3rd year at KNUST, 1st batch of Petroleum Engineering



TECHNICAL WORKSHOPS & LECTURES

- 1** UNLOCKING OPPORTUNITIES IN THE PETROLEUM VALUE CHAIN -FIRST QUARTER YP WORKSHOP
- 2** WRITING AN IMPACTFUL TECHNICAL PAPER FOR STUDENT PAPER CONTEST
- 3** TECHNICAL MEETING ON RESILIENT SUPPLY CHAIN IN AFRICA
- 4** ENERGY PERSPECTIVE-WHAT'S HAPPENING
- 5** FLEXIBLE PIPE – TECHNOLOGY REVIEW
- 6** LEVERAGING OIL AND GAS FOR A JUST TRANSITION TOWARDS NET ZERO FUTURE
- 7** FINDING A BALANCE BETWEEN ENERGY, SECURITY, AFFORDABILITY, AND SUSTAINABILITY THE AFRICAN WAY
- 8** MANAGING MACHINE LUBRICATION-A COST-CUTTING APPROACH TO MACHINE MAINTENANCE THE OIL AND GAS INDUSTRY
- 9** PRE-COP 28 TECHNICAL WORKSHOP ON THE THEME FINDING A SUSTAINABLE PATH TO NET-ZERO; THE AFRICAN WAY
- X** GHANA NATIONAL GAS COMPANY VIRTUAL INTERNSHIP AND FIELD TRIP (FOR STUDENTS)

MORE LECTURES & WORKSHOPS

- FREE SHORT COURSES ■
- STRINGING TOGETHER THE BEST TECHNICAL PAPER ■
- BEING SECURITY CONSCIOUS IN A DIGITAL WORLD ■
- PERSONAL FINANCIAL MANAGEMENT FOR NON-FINANCIAL MANAGERS ■

2024-25

UNLOCKING OPPORTUNITIES IN THE PETROLEUM VALUE CHAIN

01

The workshop was moderated by Matilda and Kelvin. The speakers at the workshop have extensive experience in the energy industry and shared insights on ways to unlock opportunities in the petroleum chain. Dr. Papa Benin discussed various challenges faced by young professionals in Ghana. He emphasized the importance of seeing challenges as opportunities for growth and learning. One challenge mentioned was the perception that locals are being denied opportunities for advancement in favour of expatriates. The speaker encouraged patience and gaining experience over time to be ready for higher roles. There are also complaints about low salaries compared to expatriates, but the speaker advised focusing on career growth rather than immediate financial gain. The discussion touched on topics like the Fourth Industrial Revolution, digitization, AI, machine learning, and disruptive technologies, emphasizing the need for innovative solutions and opportunities in sustainability and digitization fields. Academia was advised to focus on investigating real-life problems and practical research. Mr. Boateng also discussed the state of the oil and gas industry in Ghana, mentioning the country's offshore and onshore basins and the increasing interest from international companies. He emphasized the need for young engineers and professionals to understand the opportunities in the sector and how to unlock them.

The speaker discussed the current employment situation in the oil and gas industry in Ghana, stating

“There is a high percentage of local employment in core technical areas and management roles. The goal is to increase Ghanaian participation in technical roles from 75% to around 85%.”

The speaker emphasized the importance of career and talent development for young engineers, mentorship, exposure to new technologies, professional networking, and transferable skills. The speaker encouraged young technicians to consider starting their own companies and forming partnerships to take advantage of local content regulations. Yetunde and Nidra touch on how indigenous companies in the energy industry can refocus their businesses to secure funding and stay relevant in the evolving technological landscape. The conversation highlighted the importance of staying informed, restructuring business plans, and potentially forming partnerships with larger companies to access resources and expertise. They also highlighted the potential for new opportunities in the industry with upcoming projects. The importance of collaboration between industry and academia was emphasized to bridge the skills gap and ensure graduates have the necessary practical skills for employment. The speaker reiterated the need for individuals to prioritize gaining experience and building their CV over immediate financial gains.

The graphic is a promotional poster for a webinar. At the top, it features the SPE Ghana Section logo, a '2023' award badge, and a 'D&I Champion of the Year' badge. The main title is 'Unlocking Opportunities in the Petroleum Value Chain' with the subtitle 'Local Content Development and Youth Empowerment Webinar'. Below this, a 'Speakers' section lists four individuals: Yetunde Tolaw (General Manager, Nigerian Oil Companies F&P Nigeria), Dr. Papa Benin (Managing Director, State Energy), Kwaku Boateng (Director, Local Content, Petroleum Commission), and Nidra Araba Yebuah (Digital & Integration Account Manager, SIF). A 'Young Professionals Workshop Series' badge is also present. The event details are: 'Wed, 21st Feb 2024', 'ID: 850 4909 8477', 'Passcode: spegh', and '11:00AM GMT'. At the bottom, two moderators are listed: Kelvin Asaige (Petroleum Engineering graduate) and Matilda Theresa Bedikto (J&M). Social media icons for WhatsApp, Facebook, and LinkedIn are shown, along with the SPE Ghana Section logo.

WRITING AN IMPACTFUL TECHNICAL PAPER FOR STUDENT PAPER CONTEST

02

T Alexander Ofori Mensah; the speaker, emphasized the importance of planning and conducting thorough research to write a convincing paper that can be published and presented effectively.

Alexander encouraged participants to submit their abstracts for the contest, highlighting the benefits of networking and gaining exposure to technical experts. He guided the audience on the research process, including identifying key literature, deriving useful information, and communicating findings clearly to judges and other audiences. Alexander stressed the significance of understanding the target audience and effectively conveying the research results in a concise and coherent manner. The speaker emphasized the importance of considering the audience when writing and presenting research work. He stressed the need to communicate clearly and concisely, focusing on the problem being addressed, the target audience, and the value the research brings. Additionally, aligning research with sustainable goals was recommended.

The speaker then touched on the project title, which must convey the focus of the research, and the abstract, which must outline your motivation, research methods, key results and conclusion. The abstract must hook the reader's attention by addressing the broad problem and providing background information. Alexander continued to touch on the introduction of a research paper which must expound the abstract, highlighting the motivation and objectives by explaining the evolution of the problem being addressed. He stated that these elements are crucial for attracting readers and judges to a research work. On the presentation slides, he recommends it to be simple, adding images and videos that complement the content and act as evidence of project work .

The speaker emphasized the importance of keeping presentation slides simple and using images that complement the content. He advised against overdoing transitions and stressed the importance of rehearsing to synchronize slides with the presentation. Adding videos or pictures as evidence for project work was recommended but not necessary if it didn't apply.

“Keep presentations short and finish within the allotted time to show preparedness and confidence. Rehearse with a friend or record yourself to improve presentation skills.”

The speaker discussed the importance of submitting a proposal abstract to judges to outline what participants wanted to do, even if their work wasn't finished yet, explaining the process of submitting the final abstract after the proposal was accepted and encouraged participants to seek assistance if needed.

SPE International Ghana Section

2023 RECIPIENT OF THE SPE D&I CHAMPION OF THE YEAR

Writing an Impactful **TECHNICAL PAPER** For Student Paper Contest

Feb 9, 2024 @5:30PM

ALEXANDER OFORI MENSAH

ID: 880 3834 3724
Passcode: spegh

SPE Ghana Section

TECHNICAL MEETING ON RESILIENT SUPPLY CHAIN IN AFRICA

03

The moderator, Ahmed Chebbi, outlined the program, gave the welcome address; emphasizing on the importance of supply chain in the industry and collaboration between sections.

Mrs. Salamatu Mahamadu, an experienced professional in managing supply chain across industries, particularly in the oil and gas sector, was introduced. In her submission, the speaker highlighted, the speaker highlights the increasing demand for oil and gas resources in Africa and the potential for local production and mentioned consumption to reduce dependency on imports. She mention strategies that are needed, such as supply chain diversification, strategic stockpiling, risk management, technology integration, and collaboration to accelerate the industry's growth.

The speaker emphasized the need for African countries to leverage their resources and networks to meet the growing energy demands, both locally and globally. She also stressed the importance of translating this growth opportunity into development, employment, and infrastructure growth within the continent. She emphasized the need for supply chains to be seen as enablers rather than obstacles for companies looking to invest in the continent. The speaker gave some examples of supply chain disruptions that have delayed projects in Africa, such as access to resources and systemic delays.

She spoke on the importance of developing local suppliers and partnering with global companies to produce and supply products locally in Africa. She also mentioned the need for supply chain professionals to be agile and reactive to market changes and risks in Africa. The speaker emphasized the importance of technology cross-learning and training in Africa, particularly in the context of sustainability and environmental responsibility.

“Logistics and infrastructure investment as key areas that require attention for innovative opportunities in the African supply chain market.”

The speaker concluded by recommending strategic investments and building a strong supply chain to address the evolving landscape of the oil and gas industry in Africa.

SPE Ghana Section in collaboration with SPE Tunisia Section presents

FEBRUARY 24

TECHNICAL LECTURE

Resilient Supply Chain

An Enabler for Africa's Oil and Gas Industry

 SPEAKER Salamatu Mahamadu, CSCP Global Procurement Director Baker Hughes Houston - Texas	 MODERATOR Ahmed Chebbi Head of Procurement and Commercial, Mazarine Energy Tunisia
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16th FEB 2024 3:00 PM GMT / 4:00 PM CET

Join Zoom Meeting
Meeting ID: 850 2123 3603
Passcode: spegh

SPE Ghana Section

ENERGY PERSPECTIVE- WHAT'S HAPPENING

04

The speaker, Gabrijel Grubac, shared data and insights on global energy sources and encouraged critical thinking and questioning. Gabrijel discussed the importance of being conscious about daily actions, such as setting room temperatures, and how different perspectives shape our understanding of energy consumption and sources. He encouraged the shift towards renewable energy, particularly geothermal energy, as a promising future prospect. He discussed global energy consumption trends over the years, emphasizing the need for different sources of energy to meet the increasing demand due to population growth and changing lifestyles. He stressed the importance of a sober energy policy and cautioned against spreading misinformation about the oil and gas industry.

The speaker also touched on the fluctuations in oil prices and the ups and downs in the fossil fuel industry, highlighting the need for adaptation to new energy sources like geothermal and CCS. He highlighted the crucial role of education in addressing global energy challenges and emphasized the responsibility of the younger generation in guiding the energy transition. The speaker also highlighted the benefits of hydropower, particularly in Scandinavia.

He then proceeded to speak about the benefits of hydropower especially in the Scandinavia, the potential of solar energy in countries like Egypt and Australia that are making significant progress in its development. The speaker discussed the importance of understanding energy vulnerability and the impact of access to electricity on life satisfaction. On personal growth and professional development, Gabrijel mentioned the need to love what you do and not allowing other's perspectives dictate your choices. The session continued with Dr. Riverson discussing accessing information from various sources such as BP, Exxon, and IEA energy reports, highlighting the importance of

The poster is for a technical lecture titled "ENERGY PERSPECTIVE - Watt is happening?". It is organized by the SPE Ghana Section in collaboration with several other sections: SPE Uganda, South Africa, Namibia, Warri, Tanzania, Germany, Vienna, and Romanian Sections. The event is scheduled for March 28, 2024, from 1:00 PM to 2:00 PM GMT. The moderator is Dr. Riverson oppong, PhD, Section Director of SPE Ghana. The speaker is Gabrijel Grubac, Blade Energy Partners. The poster includes a Zoom meeting link with ID 891 2362 7669 and passcode spegh. It also features logos for SPE and D&I Champion of the Year.

understanding assumptions and references. He emphasized the need for education and positive contributions to help peers and oneself. Dr. Riverson emphasized the country-specific and continent-specific nature of energy transitions and the potential societal impacts of significant changes in energy sources. He suggested that government decisions were influenced by public opinion and the need to maintain comfort and essential services. He also reiterated that decisions must be made based on what is best for the country and its people rather than following trends to get elected. They stressed the need for more people to fight for positive change, such as accepting reality, changing systems, and transitioning to cleaner energy sources like natural gas. Dr Riverson concluded by stating the need for developing countries to be cautious of promises from rich countries for clean energy transitions, highlighting the potential pitfalls of insufficient funding and debt accumulation.

FLEXIBLE PIPE – TECHNOLOGY REVIEW

05

This technical meeting held in October 2023 with the aim of providing insights into the benefits of flexible pipes in the industry.

This session moderated by Dominic had Roland K. Panti and Jose Luis Pinto Vergara as the speakers. Roland began the discussion with a brief history on pipeline technology that dates back to 500 BC and the transition to flexible pipes in the 1800s.

The session aims to provide insights into the benefits of flexible pipes for the industry and address questions from the audience at the end. He spoke extensively on the application of flexible pipes that extends beyond oil and gas to mining, carbon capture, hydrogen generation, desalination, and more. Flexible pipes offer advantages over traditional metal pipelines in terms of ease of access and repair over time. Jose continued the discussion giving an overview of the flexible pipe technology highlighting the different types of pipes available in the market for oil field infrastructure, including conventional HTP pipes, glass fiber pipes, RTPS (Thermoflex) pipes, and composite pipes.

These pipes vary in their flexibility and pressure-carrying capabilities based on the type of reinforcement used. The speaker also mentioned different coatings and protections used in conjunction with HTP pipes to resist corrosion and withstand different temperatures and fluid connections. He explained the differences in permeation between polymers, highlighting the importance of molecular spacing in controlling fluid passage through the pipe material giving examples and analogies to help clarify these technical concepts for the audience.

“It is important to control fluid movement through the pipes and connections to prevent damage, especially from aggressive molecules like CO₂. Different materials such as carbon steel protected with zinc or FBE are used for this purpose based on the fluid being transported.”

Roland continued with the value proposition of the flexible pipe technology. Jose touched on the challenges related to handling supercritical CO₂ and the importance of reducing carbon footprint in the process.

Roland then addressed how CO₂ can be used for enhanced oil recovery and producing green methane through injecting CO₂ and hydrogen into depleted reservoirs. He also highlighted the use of hydrogen for storage and refrigeration applications. The speaker also emphasized the ease of remediation with flexible pipes compared to rigid pipes, as well as the differences in manufacturing and installation processes between the two types of pipes. The discussion touched on decommissioning processes and the ability to recycle materials from flexible pipes. The speakers also highlighted the inspection methods used for flexible pipes, which differ from rigid ones, as flexible pipes cannot receive magnetic flux inspection due to their polymeric material. Alternative technologies for pipe inspection, using a tool called Ingu, which detects changes in pressure and temperature in the flow stream to identify leaks or blockages. Other methods, which include using strips that detect voltage changes based on fluid contact, allowing for quick identification of issues. The session was concluded as speakers highlighted failures and of flexible pipes due to handling challenges. They stated its advantage of easy splicing to replace damaged sections. The session came to a successful end as Dominic extended great appreciation of the speakers for the knowledge shared.

OCTOBER 23
TECHNICAL MEETING
SPE Ghana Section

FLEXIBLE PIPE
Technology review and value proposition
for long term Energy sustainability.

SPEAKER
Ronald K. Panti
Operations Director, Flexible Pipe
Systems - Onshore, Baker Hughes

SPEAKER
Jose Luis Pinto Vergara
Lead Engineer, Customer
Applications Engineering,
Baker Hughes

Dominic

LEVERAGING OIL AND GAS FOR A JUST TRANSITION TOWARDS NET ZERO FUTURE



The technical lecture titled "Leveraging Oil and Gas for a Just Transition Towards a Sustainable Future" was held on 20th December 2023 with

Dr Yen Adams Sokama-Neuyam as the speaker and Mr Joseph Willie Amoah as the moderator. This lecture aimed to provide insights into the complex dynamics of the global energy transition and foster dialogue on the role of fossil fuels in the transition towards a sustainable energy future while ensuring social equity and environmental sustainability. The event commenced with an introduction and welcome address, setting the tone for the discussion. The section chair, Dr. Riverson Opong contextualized the lecture within the framework of the energy transition landscape in Ghana. This highlighted the relevance of the topic in addressing the country's energy needs while navigating the global shift towards renewable energy sources.

Dr. Yen Adams Sokama-Neuyam, an esteemed expert in petroleum engineering, was introduced as the keynote speaker. With extensive knowledge and experience in the field, Dr. Sokama-Neuyam provided an overview of the indispensable role of fossil fuels in the global energy mix, emphasizing their significance in powering transportation, industrialization, and everyday life. He delved into the challenges and costs associated with transitioning away from fossil fuels. This included the technological hurdles of clean energy solutions, the sustainable extraction of rare minerals, and the substantial financial investments required for infrastructure development.

An analysis of fossil fuels' environmental impact revealed how they contribute to climate change. The idea of the "remaining carbon budget" highlighted how urgent it is to reduce greenhouse gas emissions in order to stop global warming and its effects.

The conversation then turned to Africa's special place in the world energy scene and the need for a just transition that strikes a balance between the demands of development and environmental sustainability. Establishing a shared understanding between proponents of renewable energy sources and fossil fuel producers emerged as a crucial factor. Dr. Sokama-Neuyam proposed a framework for leveraging oil and gas to facilitate a just transition, advocating for collaboration between fossil fuel producers and renewable energy advocates.

This collaborative approach, he argued, could accelerate the adoption of clean energy technologies while utilizing existing infrastructure and expertise.

Key Insights:

- Fossil fuels power global energy generation, transportation, and industrialization, underscoring their significance in everyday Technological advancements, sustainable mining practices, and substantial financial investments pose challenges in replacing fossil fuels.
- The environmental footprint of fossil fuels and the urgency of transitioning to cleaner energy sources drive the quest for sustainability.
- Africa struggles to balance development needs with global renewable energy objectives, underscoring the importance of finding a just transition.
- Collaboration and a framework combining fossil fuels with clean energy technologies are necessary to leverage oil and gas for a just transition and accelerate the process.

The event concluded with a call to action for stakeholders to engage in constructive dialogue and collective action towards a sustainable and just energy future.

2023 recipient of the SPE D&I Champion of the Year

DECEMBER 23

TECHNICAL LECTURE

Leveraging Oil and Gas for a Just Transition towards a Net-Zero Future

MODERATOR
Joseph Willie Amoah
Head, Operations & Process, PDCI
Lead Programs Chair, SPE Ghana Section

20th DEC 2023 11:00-12:00 GMT AM-PM

Join Zoom Meeting
Meeting ID: 815 8873 5676
Passcode: spegh

Dr. Yen Adams Sokama-Neuyam
Head of Department, Petroleum Engineering,
KNUST, Principal Research Lead, Net-Zero Carbon
Emission Lab (NCEL)

SPE Ghana Section

FINDING A BALANCE BETWEEN ENERGY, SECURITY, AFFORDABILITY, AND SUSTAINABILITY THE AFRICAN WAY



This technical workshop focused on finding a balance between energy security, affordability, and sustainability in the African context.

The session featured renowned speakers such as Mrs. Barbara Maame Esi Andoh, Dr. Jinsok Sung, Professor Rita Okoroafor, Professor William Ampomah, and Dr. Theo Acheampong.

Professor Omowumi Iledere, in his keynote address, emphasized the need to balance energy supply security and sustainability in Africa, taking into account economic growth and human development. He highlighted key dimensions such as affordability, availability, adaptability, and accessibility of energy. He also stressed the importance of technological advancement and utilizing abundant energy resources for economic development. Professor Iledere underscored the necessity of developing human capital to effectively utilize renewable energy. He urged policymakers to adopt a transformational mindset toward energy transition and cautioned against rapid changes in energy sources.

In her presentation, Mrs. Barbara Maame Esi Andoh delved into the intricate challenges posed by Ghana's energy debt, a longstanding issue stemming from non-payment of electricity bills and substantial losses within the energy sector. Over a span of two decades, this debt had amassed, posing a formidable barrier to both economic recovery and the realization of comprehensive energy transition plans. Through meticulous analysis, she elucidated the multifaceted nature of the problem, attributing it to factors such as inadequate revenue collection, non-cost reflective tariffs, and inefficiencies within power utilities. These issues collectively underscored the urgency of addressing the energy debt to facilitate progress not only within Ghana's energy sector but also in broader socio-economic development endeavours. Furthermore, Mrs. Andoh emphasized the tangible impacts of Ghana's energy debt, which surpassed \$1 billion, diverting crucial funds away from essential sectors like healthcare and education. This diversion impeded Ghana's ability to meet Sustainable Development Goal 7 (SDG7), despite relatively good access to electricity. Moreover, the debt encumbered investments in renewable energy and climate change projects, leading to a moratorium on new renewable energy initiatives since 2017.

Consequently, Ghana's transition to cleaner energy sources, including natural gas, faced significant setbacks. Mrs. Andoh emphasized the urgency of resolving debt issues to fund energy transition plans, highlighting the importance of fostering investor confidence and formulating sustainable financing strategies, including climate financing mechanisms, private finance, and national budget allocation. Mr. William Ampomah emphasized the urgency of addressing climate change by reducing carbon emissions and achieving Net Zero CO₂ emissions, in line with global initiatives such as the Paris Accord. He highlighted challenges in transitioning to renewable energy, including the reliance on hydrocarbons and associated emissions, while stressing the importance of advanced technologies like carbon storage. Ampomah discussed the multi-generational nature of this transition, advocating for a mix of increased efficiency, decarbonized power sources, and carbon capture and storage.

Additionally, he outlined challenges in achieving zero emissions globally, citing technological costs and enforcement difficulties in developing nations like India. Ampomah underscored the need for each country to find its unique path towards emissions reduction, using Ghana as an example.

“Government must endeavour to support investments in globally-applicable decarbonization technologies like carbon utilization and storage for emissions mitigation in order to achieve climate goals at the lowest cost.”

Dr. Theo Acheampong, an economics and political risk consultant based in the UK, discussed the implications of mineral resources for Africa amidst the global transition towards cleaner technologies. He emphasized the importance of transitioning to newer forms of energy production to reduce carbon footprint, highlighting the critical role of mineral resources in supporting this shift. Dr. Acheampong addressed challenges faced by African countries in balancing development choices with global decarbonization goals and stressed the significance of critical minerals in driving the new industrial revolution.

Moreover, he underscored the increased demand for these minerals to meet net zero goals and emphasized Africa's potential to benefit from this demand by optimizing mineral resources to drive economic development. Dr. Acheampong proposed key strategies for African countries, including shifting towards green industrialization, ensuring energy access and security, and focusing on value chain imperatives for critical minerals. He highlighted the importance of industrial policy in utilizing all available resources and leveraging initiatives like Ghana's energy transition plan and opportunities in renewable energy. Additionally, Dr. Acheampong emphasized the need for African countries to add value to their mineral resources and adopt a more regional approach, while highlighting critical minerals like copper, lithium, cobalt, and rare earth elements as essential components in clean energy technologies.

Dr. Jinsok Sung continued the discussion by addressing the role of hydrogen in the energy transition and the importance of developing hydrogen strategies. He shared research insights from South Korea's experience, emphasizing the necessity for collaboration and knowledge sharing in energy policies. Dr. Sung discussed the challenges and potential of hydrogen as an energy storage solution, noting its consideration as less effective and more expensive than other energy sources but crucial in achieving climate goals.

Also, he highlighted South Korea's efforts in developing a hydrogen economy, driven by economic development, job creation, and decarbonization initiatives.

“Though coal and gas replacement with hydrogen in various sectors remains a challenge as the required technology is not fully ready, it is, however, imperative to transition to hydrogen as a cleaner energy source if we are to achieve carbon neutrality by 2050.”

Dr. Sung also noted South Korea's limitations in producing clean hydrogen domestically due to expensive renewable energy and limited carbon capture technology, leading to reliance on imports and cooperation with traditional energy producers.

Professor Rita Okoroafor, an assistant professor at Texas A&M University, delved into the complexities of CCS (carbon capture storage) evaluation projects, specifically focusing on mitigating uncertainties associated with CO2 geologic storage. She underscored the importance of addressing uncertainties in geological systems, operational processes, and market factors within carbon capture and storage initiatives. Professor Okoroafor emphasized the need for accurate data collection, thorough reservoir characterization, and proper management of uncertainties to ensure successful project implementation and site selection.

Furthermore, Professor Okoroafor discussed various sources of CO2 emissions, including power plants and energy-intensive industries, while highlighting the potential of blue hydrogen and bioenergy integration in carbon capture strategies. She outlined the process of screening, selecting, permitting, and monitoring CO2 storage sites, emphasizing the significance of geological considerations such as capacity, pressure, and containment. Additionally, she stressed the importance of conducting region-specific research and development in Africa to harness its unique geological resources for energy security and sustainability, emphasizing the strategic role of CCS technologies in decarbonization efforts.

Panelists discussed infrastructure funding for oil and gas security in Africa and the shift to thermal power generation from hydro in certain countries for reasons like energy security. They addressed challenges in Africa's energy sector such as power theft and debt accumulation, emphasizing the need for accurate quantification and political solutions. Additionally, the session emphasized the importance of infrastructure investments for achieving zero CO2 emissions, highlighting technology access and financing for carbon capture and storage, given potential limitations in advanced technology sharing.

The discussions extended to research and development endeavors in Ghana, emphasizing collaboration with universities and technology transfer to bolster the country's development. Concerns regarding the environmental impact and energy intensity of mining activities in Africa were raised, prompting suggestions for the adoption of decarbonization technologies. Emphasis was raised on prioritizing resources for research, development, and sustainable practices. The session concluded with gratitude for the exchange of insights and emphasized the necessity of investing in research to achieve a path to Net Zero emissions, alongside advocating for collaborative efforts between academia, industry, and government to implement effective policies.

MANAGING MACHINE LUBRICATION-

A COST-CUTTING APPROACH TO MACHINE MAINTENANCE THE OIL AND GAS INDUSTRY

08

In a technical meeting led by Kofi Boakye Agyemang, the focus was on the importance of lubrication management for cost-saving in companies and reliability engineering.

Agyemang discussed the historical evolution of lubrication practices, highlighting its significance in reducing friction, heat, and improving equipment efficiency. He stressed the need for proper lubrication to avoid increased maintenance costs, downtime, and safety issues, underlining the importance of understanding product specifications like viscosity and API performance ratings for effective lubrication management.

Furthermore, Agyemang emphasized understanding engine oil specifications beyond viscosity, considering factors like extreme temperatures and environmental conditions when selecting the right oil for equipment. He stressed the importance of a systematic lubrication program to optimize drain intervals and ensure proper asset maintenance. Measures for contamination control and oil rationalization for cost-cutting were highlighted as crucial aspects of effective lubrication management.

Moreover, Agyemang discussed the concept of portfolio rationalization to optimize lubrication practices across different equipment types. He emphasized the need to assess the benefits of using higher specification oils and collaborating with major suppliers to streamline rationalization efforts. Challenges like managing multiple suppliers and contamination concerns were addressed, along with the importance of lubrication inspections and audits for identifying inefficiencies. Agyemang concluded by advocating for a focus on reducing carbon footprint through the adoption of environmentally compatible lubricants.

The benefits of synthetic oils over mineral base oils were highlighted, including extended drain intervals, better seal reaction, slower oxidation, and improved performance due to tailored chemistry. The presentation concluded with insights into the effects of additives on oil stability against temperature variations and stressed the importance of selecting the right oil specified by the Original Equipment Manufacturer (OEM) to prevent engine problems.

Additionally, the speaker shared updates on upcoming events and initiatives within the organization, encouraging audience participation and engagement. They emphasized the importance of the presentation on vehicles and road safety, reminding members to renew their membership on the SP website and reach out to executives for assistance. The audience was encouraged to join the training program for young professionals interested in debating and informed about upcoming events, including a diversity and inclusion lecture on breast cancer awareness and a technical lecture on flexible pipe technology. The presentation concluded with a call to action for the audience to follow SPE Ghana section on social media for updates and a warm wish for a lovely afternoon.

"In prioritizing the environment, there is a critical need for the use of environmentally friendly lubrication oils, especially in the upstream sector to reduce harmful emissions and to protect the environment. As such, the use of harmful heavy metals and additives must be limited."

OCTOBER 23
TECHNICAL MEETING

Managing Machine Lubrication
A Cost-Cutting Approach to Machine Maintenance in the Oil and Gas Industry.

12TH OCT 2023 12:00 PM - 1:00 PM

Join Zoom Meeting
Meeting ID: 810 7835 3356
Passcode: spegh

Kofi Boakye Agyemang
Technical Lead, Vivo Energy Ghana Ltd

SPE Ghana Section

PRE-COP 28 TECHNICAL WORKSHOP ON THE THEME FINDING A SUSTAINABLE PATH TO NET-ZERO; THE AFRICAN WAY



The Pre-COP technical workshop was held at the African Centre for Energy Policy (ACEP) on 10th November 2023 under the theme, "Finding a Sustainable Path to Zero: The African Way,". This event brought together a diverse array of speakers and experts to explore strategies for achieving environmental sustainability on the African continent with Dr. Riverson Oppong as the convener. Sheena Owusu Ansah, the SPE Ghana Section Chair, delivered the welcome address, emphasizing the critical importance of addressing environmental challenges in Africa.

Benjamin Kwabena Boakye, Executive Director of the Africa Center for Energy Policy (ACEP) and guest speaker, delivered a compelling address, emphasizing the urgent need for sustainable energy solutions in Africa. He highlighted Africa's role in combating climate change and stressed the importance of innovation, collaboration, and commitment to building a sustainable future. Mr. Boakye advocated for comprehensive reforms in Africa's energy landscape, including efficient procurement systems, sustainable oil and gas practices, and transparent contracting processes. He underscored the need for accountability and responsible governance, particularly in addressing corruption and ensuring equitable benefit distribution.

Ama O. Sarpong moderated the event, highlighting the importance of tailoring energy transition strategies to the unique challenges faced by Africa. The first speaker, Dr. Charles Ofori, the policy lead on climate change and energy transition at ACEP, focused on methane management as a crucial aspect of achieving net-zero emissions for African oil producers. He emphasized the need for stronger monitoring and reporting systems, enhanced political will, and collaboration between governments, industries, and financial institutions to reduce methane emissions effectively.

Dr. Yan Adams Sokama-Neuyam highlighted the necessity of building a robust research ecosystem to facilitate Africa's transition to net-zero carbon emissions. He proposed the establishment of a National Energy Transition Research Consortium to mobilize resources, identify research priorities, and fund projects, emphasizing the importance of interdisciplinary collaboration and evidence-based policymaking. Engineer Joseph Willie Amoah addressed the necessity of developing a robust framework for energy trading and governance within Africa.

He emphasized the need for unified energy markets across the continent, improved performance of state-owned enterprises, and fostering private participation to drive economic growth. Worship Joshua Frimpong, Founder of Eco Africa Network, emphasized the critical role of the youth in Africa's energy transition process, stressing the importance of involving young people in education, training, mentorship, and decision-making processes related to energy transition. Benedicta Akesse-Anan Esq discussed the impact of legislation on Africa's energy transition process, highlighting the importance of policy frameworks in driving tangible outcomes and citing examples from various African countries.

During a panel discussion moderated by Ama O Sarpong, Dr. Charles Ofori emphasized the importance of methane management as a critical pathway to achieving net-zero emissions in Africa's oil production. He highlighted various technologies such as pneumatic units, vapor recovery units, and leak detection systems as effective strategies. Dr. Ofori also stressed the economic benefits of capturing methane for power generation, citing successful examples from Ghana and Nigeria.

Dr. Yen Adams underscored the need for a robust research ecosystem to drive Africa's energy transition towards net-zero emissions. He proposed initiatives to integrate academia, government, and industry through national energy transition consortia and regional networks. Dr. Adams advocated for practical implementation of research solutions, emphasizing the importance of gaining trust from policymakers and stakeholders.

Engineer Joseph Willie discussed achieving a just energy transition in Africa while minimizing negative impacts on communities. He highlighted the UN Sustainable Development Goals as a framework for inclusive energy transition, emphasizing the interconnectedness of energy access with other societal goals. Willie proposed internalizing the social costs of energy production and redistributing benefits to affected communities as key strategies.

Dr. Charles Ofori emphasized the importance of collaboration between the worlds of hydrocarbon and renewables, stressing the need for innovation and technology to drive a just energy transition. He highlighted the significant role of the African Development Bank and Afreximbank in facilitating this transition, urging stakeholders to invest in technology to ensure accessibility and affordability of energy.

Lawyer Benedicta Akesse-Anan Esq addressed key policy considerations for African governments to prioritize, emphasizing the need for equitable and feasible practices to adapt to sustainable energy. She stressed the importance of engaging relevant stakeholders in the legislative process and leveraging funding opportunities such as carbon bonds to support energy education initiatives.

The event concluded with Dr. Suleman's closing remarks, urging African countries to take advantage of their resources and invest in technology to drive the transition to renewable energy. He emphasized the need for African nations to collaborate and innovate to ensure a successful transition and seize opportunities for economic development.

10

GHANA NATIONAL GAS COMPANY VIRTUAL INTERNSHIP AND FIELD TRIP (FOR STUDENTS)

GHANA GAS
GHANA NATIONAL GAS COMPANY

SPE International
Ghana Section

2023 RECIPIENT OF THE SPE D&I CHAMPION OF THE YEAR

GHANA GAS
Virtual Internship and Field Trip
for students

DAY 1
OVERVIEW OF THE GAS SECTOR
Riverson Oppong PhD, Commercial Manager

DAY 1
GAS DEMAND AND SUPPLY BALANCE
Peter Amisah-Hagan, Assistant Commercial Manager

DAY 2&3
GAS PROCESSING PLANT (GPP) OPERATIONS
Albert Mensah-Tandoh, Operations Manager
Ing. Michael Kwabena Mireku, Main Plant and Utilities Manager

DAY 4
HEALTH AND SAFETY MEASURES
Mr. Jaasu Yahaya, HSE Manager

DAY 4
GAS TARIFFS AND NGL PRICING
Sylvester Enumi Cudjoe, Commercial Operations Manager

HOST
Sheena Owusu-Ansah, Section Chair, SPE Ghana

CHIEF HOST
Dr. Ben Asante, CEO, GNOC

CONVENOR
Philip Kwasi Banini, Students' Liaison, SPE Ghana

Jan 09th 2024
Jan 10th 2024
Jan 11th 2024
Jan 12th 2024

12:00PM to 3:00PM GMT

webinar ID: 830 4910 1658

SPE Ghana Section

TECHNICAL LECTURES & WORKSHOPS

FREE SHORT COURSES

Comprehensive training programs to boost oil and gas productivity, tailored for industry success and practical skill development.

Tutors:

- Introduction to Upstream Petroleum Fiscal Systems and Economics
- Introduction to Solids Engineering and Offshore Structures
- Introduction to Artificial Intelligence
- Advanced Technologies in Well Completions
- Introduction to Gas Vent Chams
- Professional Well Completions and Integrity of Oil and Gas Facilities

Leadership Training Session
Temitope Oshuntuyi

Venue: CEIS
Date: 26th August, 2023
Time: 09:30AM - 5:00PM
More info: +233 24 886 9237

FREE SHORT COURSES

Comprehensive training programs to boost oil and gas productivity tailored for industry success and practical skill development.

Delivered on Wed, August 26, 2023 by highly experienced and resourceful Chapter members on critical industry topics relevant for the career advancement of burgeoning members

Complimented by Leadership seminar delivered by Exxon Mobil's Temitope Oshuntuyi, Nigeria.



STRINGING TOGETHER THE BEST TECHNICAL PAPER
from a catchy abstract to a perfect delivery

Facilitator:
Kamaldeen Adesina, PhD
Section Director
Nigeria

Speakers:
Fifi Nyarkoh Otoo, YP Chair, SPE Ghana
Manid Omary, YP Chair, SPE Tanzania
Engr. Omulwabi Okeoghene, YP Chair, Nigeria

Wed, 6th Dec 2023
Zoom ID: 841 562 0705
9:30AM - 5:00PM GMT

STRINGING TOGETHER THE BEST TECHNICAL PAPER

From A Catchy Abstract To A Perfect Delivery

Delivered on Wed, April 6, 2023 by Fifi Nyarkoh Otoo (YP Chair, SPE Ghana), Manid Omary (YP Chair, SPE Tanzania) and Engr. Omulwabi Okeoghene (YP Chair, Nigeria). Moderated and Facilitated by Kamaldeen Adesina (NNPC Gas, Nig.)



NOVEMBER 23
TECHNICAL LECTURE

Being Security conscious in a digital world

Facilitator:
George Tani Hooke King
Cybersecurity Engineer

Speaker:
Sanders Tetteh
Cybersecurity Professional

2nd NOV 12:00 - 1:00 PM

Join Zoom Meeting
Meeting ID: 810 2809 5498
Passcode: spgeh

BEING SECURITY-CONSCIOUS IN A DIGITAL WORLD

Delivered online on Thu., November 2, 2023 by Mr. Sanders Tetteh (Cybersecurity Professional), and Facilitated by Mr. George Tani Hooke King.



SEPTEMBER 23
Technical Meeting

PERSONAL FINANCIAL MANAGEMENT FOR NON-FINANCIAL MANAGERS

05th SEPT 1 PM - 2 PM

Meeting ID: 853 3795 6671
zoom Passcode: spgeh

Abdul-Razak R. Inusah

PERSONAL FINANCIAL MANAGEMENT FOR NON-FINANCIAL MANAGERS

A hour-long meeting hosted online on Thu., September 5, 2023 by the esteemed Mr. Abdul-Razak R. Inusah to discuss financial management methods for people in non-managerial positions.



B A S I C S O F WELL CONTROL

Mr. Ato Aidoo, an esteemed figure in petroleum engineering and member of the Society of Petroleum Engineers, Ghana section, took the initiative to provide invaluable insights into the intricate world of well control to the students of Kwame Nkrumah University of Science and Technology (KNUST). He held a 2-day presentation for the students on February 19th and 22nd, 2024.

The first lecture on 19th February 2024 commenced with Mr. Ato Aidoo emphasizing the importance of comprehending oilfield units and conversions, essential for working with diverse measurements across international scopes. He covered a broad spectrum of terminologies, from reservoir characteristics like porosity and permeability to vital measurements such as true vertical depth (TVD) and hydrostatic pressure. Delving deeper, Mr. Aidoo explored the geological aspects, shedding light on sedimentary rock formation processes and factors influencing pore pressure. He elucidated on normal, subnormal, and abnormal pressures, emphasizing their causes and implications for drilling operations. Understanding hydrostatics, he stressed, is crucial for maintaining balance and preventing formation fractures, cautioning against underbalanced conditions. Practical demonstrations, including leak-off tests and the U-Tube principle, were employed to illustrate methods used to assess formation pressures and fluid behavior in wellbore scenarios. Through these, students gained a comprehensive overview of well control fundamentals, setting the stage for future endeavors in the petroleum industry.

In his subsequent presentation on February 22nd, Mr. Aidoo turned his focus to the grave risks associated with blowouts and the imperative of well control in preventing catastrophic incidents. Utilizing visuals such as the Deepwater Horizon rig before and after a blowout, he vividly depicted the dire consequences of uncontrolled releases of formation fluids.

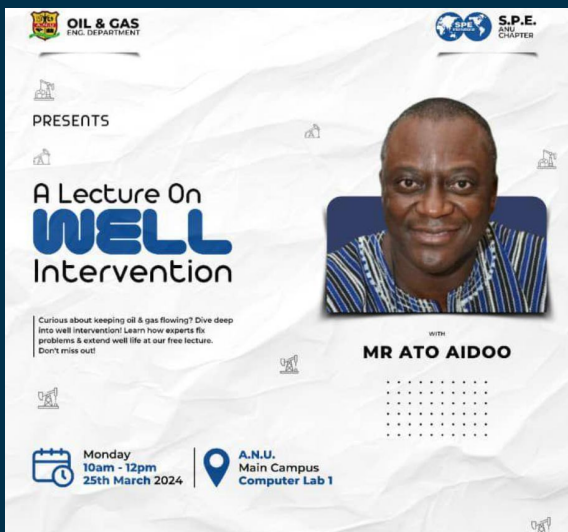
Central to Mr. Aidoo's discourse was the pivotal role of drilling contractors in preventing blowouts and mitigating associated risks. He outlined preventive measures, stressing the necessity of double barriers, such as drilling mud and Blowout Preventer (BOP) stacks, to effectively contain high-pressure formations during drilling operations. Further discussions centered on drilling operations and kicks, emphasizing the importance of maintaining mud hydrostatic pressure to control wellbore influxes. Mr. Aidoo detailed common approaches, such as the drillers' method and the wait-and-weight method, for restoring primary control post-kick, while addressing practical considerations like choke plugging or drillstring washing out. This seamless flow ensures that the audience can follow the sequence of events from understanding oilfield fundamentals to the prevention of catastrophic incidents through effective well control measures.



Ato Aidoo

Drilling Engineer

WELL INTERVENTION PRACTICES AND STRATEGIES IN THE PETROLEUM INDUSTRY



Mr. Ato Aidoo also extended his expertise to students at All Nations University (ANU) and University of Mines and Technology (UMaT) through a comprehensive presentation on "Well Intervention Practices and Strategies in the Petroleum Industry" on February 28th, 2024, and March 25th, 2024, respectively.

The presentation began with a detailed exploration of essential topics, starting with Units of Measurement, where Mr. Aidoo emphasized the significance of oilfield units and conversions for seamless international operations.

He meticulously outlined conversion factors for various metrics, ensuring students grasp the fundamentals of measurement in the petroleum industry. Moving on to Health, Safety & Environment (HSE), Mr. Aidoo highlighted the critical importance of preventing incidents and accidents, stressing compliance with regulations such as COSHH Regulations 2002. He underscored the need for flawless execution of operations to ensure the safety of personnel, the environment, and assets. Technical Regulations & Standards were discussed extensively, with Mr. Aidoo emphasizing the role of organizations like the International Standards Organisation and the American Petroleum Institute in setting industry benchmarks. He differentiated between technical regulations and standards, emphasizing the mandatory nature of compliance with technical regulations.

He also provided insights into the Well Delivery Process, covering its application to various stages from exploration to production. Planning phases were outlined, including scoping, selection, and execution, emphasizing the importance of operational readiness and risk mitigation throughout the process. Mr. Aidoo delved into reservoir drive mechanisms, well completions, and formation damage & production enhancement. He discussed various reservoir drive mechanisms, including internal and external drives, and the importance of well completions in optimizing hydrocarbons recovery. Furthermore, Mr. Aidoo addressed the challenges posed by formation damage and explored strategies for production enhancement, such as matrix acidization and hydraulic fracturing. On well completions, he delved into completion designs and its components. From tubing, packers to safety valves and Christmas trees, each aspect was meticulously explained, providing students with a comprehensive understanding of completion equipment.

The presentation concluded with a focus on Well Intervention Operations, describing them as a means to gain access to wells for repair, maintenance, or fluid injection. He outlined different intervention techniques, including slickline, wireline, coil tubing, and snubbing operations, highlighting their applications and benefits in well maintenance and productivity enhancement.

Mr. Ato Aidoo's presentation provided students with a holistic understanding of well intervention practices and strategies, equipping them with essential knowledge for future roles in the petroleum industry. His comprehensive approach and practical insights promise to prepare the next generation of engineers for the challenges and responsibilities they may encounter in their careers.

COLLISION AVOIDANCE FOR “OLD” OFFSET WELLS WITH LARGE ERROR OF UNCERTAINTIES



BY [BENEDICT NORTEY PMP®, PE]



The world of oil and gas drilling is not for the faint of heart. Precision, knowledge, and the capacity to adapt to the unexpected are crucial in this field. Within this industry, I found myself at the helm of a challenging well planning project, one that would become a defining chapter in my career. This essay introduces you to the world of risky well planning with a specific emphasis on collision avoidance.

Nothing is more critical in the high-pressure world of oil and gas drilling than accuracy and safety. The key to navigating this complex environment is careful preparation. During this process, avoiding collisions in a field with close offset wells becomes a crucial issue. I will share a remarkable case study from my career as a well planner, a project that put me on a collision course and how I successfully navigated it.

Imagine a new well project that is in perilous proximity to offset wells, with a very large margin of error since the offset wells were surveyed with low-end technology tools. In this situation, well planners err on the side of caution and aim to increase the separation distance as much as possible with the wellbore trajectory they are planning. In the "start collision monitoring zone," the stakes are high, and the margin for error is almost nonexistent while drilling. What increased the complexity was the fact that my new well plan was adjacent to live production wells, surrounded by significant uncertainty, which meant the potential consequences of misjudgment were catastrophic.

At the heart of collision avoidance is the monitoring engineer while drilling. I wore this additional hat and was tasked with real-time tracking of surveys while drilling. This meant staying up late on the beach and discussing my findings with the offshore crew. My job was to project surveys to the bit, accounting for well curvature, and foreseeing the path ahead of the bit. This is where human expertise plays a defining role. My knowledge and experience came to the forefront in making immediate, high-stakes decisions.

The turning point in my tale came with the arrival of the third set of surveys. As I projected ahead, a chill ran down my spine. The well was perilously close to an offset well; a collision seemed imminent. With the clock ticking and the stakes soaring, I raised the red flag, and drilling operations came to a halt. My immediate actions would shape the outcome.

The initial strategy of the oil company that had contracted my company was to avoid re-surveying problematic offset wells, despite my recommendations. However, the gravity of the situation soon became apparent. Faced with a looming collision, the oil company had no option but to rapidly mobilize a gyro company for re-surveying. This decision came with added costs, including offshore crew standby rates and unplanned rig rates.

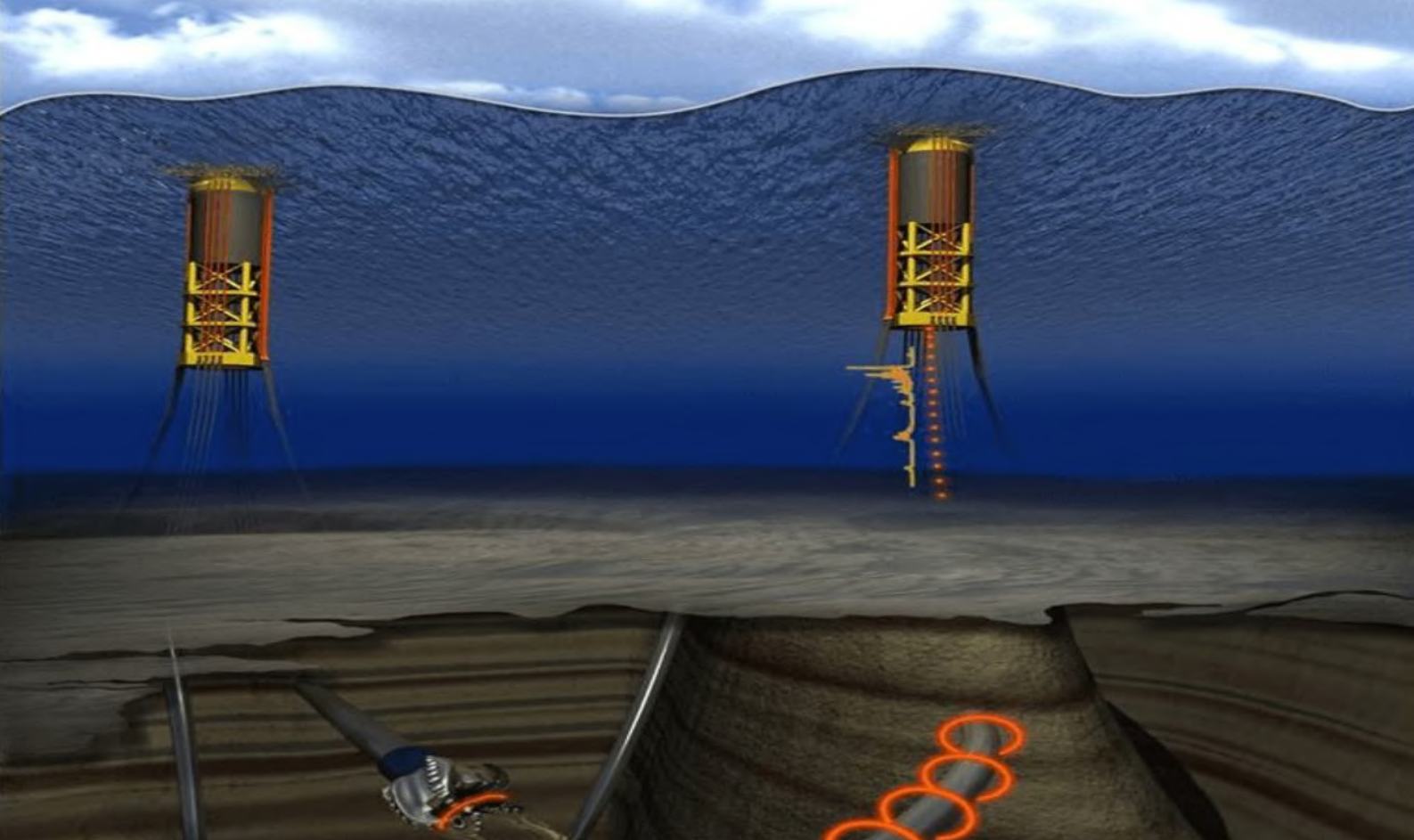


Photo Source: Well collision detection. Obelisk Petroleum Services. (2019, July 25). <https://obeliskps.com/products-and-services/well-collision-detection/> .Accessed on (2023, October 11)

The outcome of my prudent actions was two-fold. First, I stopped the approaching collision to save lives and property. Second, my suggestion that offset wells be re-surveyed was supported. I was honored with a safety award, and the icing on the cake was a special commendation from my company's Africa President and Vice President of Drilling.

This experience serves as an excellent metaphor for the high-stress environment of effective planning, highlighting the significance of knowledge-driven planning, experience-backed decision-making, and the fortitude to make unpopular decisions. In this complex industry, a good well planner in this field serves as the guardian of safety and success, navigating the fine line between catastrophe and triumph.

In conclusion, the oil and gas industry's realm of well planning is a high-stakes game where accuracy and safety are paramount. The "start collision monitoring zone" necessitates careful planning and expertise to project ahead using geological information and previous survey data to navigate the problematic zone safely. In the end, it's the ability to avert the worst-case scenarios that defines the true value of expertise in this field.

The writer is a former Well Planner and Drilling Applications Engineer, specializing in Drilling Optimization Engineering and complex well profiles. With a background in strategic management and joint venture relations, he has held positions as a General Manager for a local oil and gas company and as Chief Operating Officer for General Electric Oil and Gas Ghana Limited and Baker Hughes Energy Technology Ghana Limited. Now into Technology Consulting, he assists clients across various industries, including automotive, medical technology, energy, and utilities, in navigating complex technologies and emerging trends.

DOWN *MEMORY* LANE



Throwback to 2017 Nigeria
Nicholas Abakah Eshun & Co.
UMaT 2015 Petroleum Engineering class
second year site visit to Petroleum
Training Institute (PTI), Delta state.

S P E A n n u a l

SOCCER

GALA

2023





The Ghana Geological Survey Authority (**GGSA**) beat **ENI** Ghana 1-0 in a keenly contested final of the 2023 Edition of the SPE Annual Soccer Gala at the Mary Mother of Good Counsel School. The SPE Annual Soccer Gala was borne out of the need for the Society of Petroleum Engineers (SPE) to reach different aspects of the Oil and Gas industry in efforts to improve professional membership. An elite 8-company tournament encompassing organisations across Upstream, Midstream and Downstream was formed as a result. The organisations were ENI Ghana, Ghana Geological Survey Authority (**GGSA**), Ghana National Gas Limited Company (**GNGC**), Ghana National Petroleum Corporation (**GNPC**), MODEC Production Services Ghana JV Limited (**MODEC**), Tullow Oil Ghana Limited (**TGL**), National Petroleum Authority (**NPA**) and Petroleum Competition (**PC**).

FINALISTS

The tournament provided many surprises throughout the day. In Group A, **GNPC** were obvious favourites to qualify whilst **NPA** were main favourites in *Group B*. However, the football gods envisioned a different end to their stories as ENI and **GNGC** secured a draw and won respectively to prevent pre-tournament favourites **GNPC** from qualifying to Semi Finals.

Group A

	GP	W	D	L	GF	GA	GD	PTS
GNGC	3	2	3	0	3	0	3	7
ENI	3	1	2	0	1	0	1	5
GNPC	3	1	1	1	2	2	0	4
MODEC	3	0	0	3	1	5	-4	0

Group B

	GP	W	D	L	GF	GA	GD	PTS
Tullow	3	2	0	1	3	2	1	6
GSSA	3	1	1	1	1	1	0	4
NPA	3	1	1	1	1	1	0	4
PC	3	1	0	2	2	3	-1	3



MODEC failed in their bid to qualify out of the group after failing to pick up any points over the course of the tournament. In *Group B*, the odds favourite **NPA** were unable to progress to the Semi Finals after a dismal start to the tournament after **TGL** secured a surprised victory at the former's expense. **PC** set the group up for more drama as their victory against eventual winners **GGSA** meant the final group of matches would determine the outcome of the teams to progress. **TGL** made no mistake as they secured a surprise victory over **PC** to secure a spot in the final 4. **NPA** failed in their late bid to qualify as their goalless draw with **GGSA** would mean an unlikely penalty shootout would be required in the group stage after both teams scored and conceded same number of goals with identical Fair Play results having both received 2 yellow cards throughout the tournament.



The top two organisations from both groups proceeded to the Semi Finals. With both 3rd- Placed sides facing off for the 5th and 6th place. The 5th and 6th Place contest was well competed between **GNPC** and **NPA** with **NPA** losing out after **GNPC** regained their composure to secure a 2-0 victory.



The Semi Finals provided another shock of the tournament after **GGSA** knocked **GNGC** out through penalties. **ENI** and **TGL** semi final was more competitive with **TGL** securing a 1-0 win over their upstream rivals. However, **ENI** managed to secure a route to the final through a legitimate protest concerning the validity of employment of **TGL** goalkeeper. Thorough investigations proved that **TGL** had fielded an illegal player and were duly disqualified to allow **ENI** to progress. In a heated final, the Man of the Tournament, Melvin of **GGSA**, managed to sneak past the sleeping **ENI** defence and score the only goal of the match to secure the coveted title of Inaugural Winners of SPE Annual Soccer Gala.

Speaking at the end of the event, SPE Ghana Section Chair, Dr Riverson Oppong reiterated a commitment to ensuring networking through various means other than the usual technical monthly sessions. Dr Oppong stated,



“This event was certainly a step in the right direction as SPE Ghana attempts to break the society was purely an engineer focused one. SPE Ghana seeks to position itself to remain attractive to all professionals and students in the Oil and Gas field for years to come and this event is just a tip of the offerings available.” - Riverson, PhD.

“This event has provided enough data and feedback from participating organisations to enable SPE Ghana organise quarterly editions of the competition for maximum effect in the coming years” - Yaw Frempong Koduah-Sarpong

Further to that, Derwent Darwin Solutions CEO, Yaw Frempong Koduah-Sarpong, also the Deputy Secretariat Chair for SPE Ghana, stated that this event provided enough insight for the pursuit of similar corporate games across Ghana.

OUTSTANDING VOLUNTEERS 2023/24

JULY, 23




Yaw F. Koduah-Sarpong
Ghana National Gas Company




Fiifi Otoo
Petroleum Commission

AUGUST, 23



Ama O. Sarpong
ENI Ghana



James Allotey-Okai
Baker Hughes

SEPTEMBER, 23



Nicholas Abakah Eshun
Relu Interactives




Julian Asiedu
Environmental Protection Agency




Vincent Nana Boah Amponsah
Vivo Energy

OCTOBER, 23




Derek Sage
ACEP




Daniel Kwabla Avudzivi
Frigo -steel Ghana Ltd

NOVEMBER, 23



Obed Tanlon
Wayoe Engineering & Construction



Ato Debrah
GNPC

JANUARY, 24



Abdul Razak Suleman
Kwame Nkrumah University of Science and Technology




Auntie Ekuba Mensah
Takoradi Technical University




Sena Ibrahim
Kumasi Technical University

FEBRUARY, 24




Christabel Ofori-Atta
Consulting Engineer




Abena Owusua Yeboah
SLB

MARCH, 24




Alexander Mensah
SLB




Clement Mantey Annor
ANU SPE Chapter


APRIL, 24



Leo Andoh Adjoi Gyimah
Ghana National Gas Company



Rachael Erhabor
Freelance Data Scientist



Jude Amo Boateng
Vivo Energy, Ghana





1

2023 D&I INTERNATIONAL GIRLS IN ICT DAY

2

2024 INTERNATIONAL GIRLS IN ICT DAY

3

INTERNATIONAL EQUAL PAY DAY 2023 WEBINAR

4

ENGINEERING, DIPLOMACY AND THE CRUCIAL ROLE OF FEMALE ENGINEERING PRACTITIONERS

5

DAY FOR THE ELIMINATION OF VIOLENCE AGAINST WOMEN

6

THE IMPACT OF DEMOGRAPHIC TRENDS ON FAMILIES; STRIKING THE BALANCE

7

WHEN FATE MEETS FAITH; A SURVIVORS EXPERIENCE WITH BREAST CANCER

2023-24



2022/2023

CHAMPION OF THE YEAR

THIS IS AWARDED TO

SPE GHANA SECTION

for fulfilling the mission and vision of SPE D&I and successfully implementing Diversity and Inclusion into your programming.

Patricia E Carreras

SPE D&I Chair



Society of Petroleum Engineers

Niesharsa Triaswari

SPE D&I Internal Outreach Team Lead

The D&I Champion of the Year is an award to honour a section/chapter that has been exceptionally proactive and successful in fulfilling the mission and vision of D&I in a local capacity. The D&I committee of the Ghana Section was awarded the global champion of the year by virtue of its alignment with the Diversity & Inclusion mission and vision, its goals which were aimed at fostering greater gender diversity within the energy sector; dispelling fallacies and reaffirming truths regarding gender-based diseases; fostering collaboration and support among diverse groups, sectors, and nations; and raising awareness regarding prevalent gender bias issues within the industry. Again, the section was recognised for its innovations which were; harnessing the potential of internationally recognized observances to disseminate awareness on global concerns, employing virtual sessions as a medium for facilitating constructive discourse stands as a judicious utilization of resources, the deliberation of panel discussions constituted a captivating format employed during sessions and embracing an inclusive perspective, recognising the imperative of extending the committee's impact beyond the boundaries of SPE Ghana. The committee's focus on community involvement and impact through; The Women in Energy Empowerment Forum, The Youth STEM Outreach Program, The Inclusive Technical Symposium, The Social Impact projects such as donations and fundraising campaigns to support less privileged women and children were all influencing factors to this win.

2023 RECIPIENT OF THE SPE
D&I Champion of the Year!



1

2023 D&I International Girls in ICT Day



The Society of Petroleum Engineers (SPE) Ghana Section's Diversity and Inclusion (D&I) Committee, a non-profit organization, championed a career seminar for Ghanaian female students at Achimota School in Accra. Held in conjunction with the 2009-year group of the Old Achimotan Association (OAA '09) to coincide with International Girls in ICT Day (#GirlsInICT), the event aimed to inspire young women to pursue careers in Information and Communication Technology (ICT).

With the global theme "Digital Skills for Life," the seminar emphasized the importance of equipping female students with the necessary skills, confidence, and support to thrive in the ICT sector. The SPE Ghana Section recognizes the significance of bridging the gender gap in this traditionally male-dominated field and fostering a more inclusive future for technology.



Mr. Godfred Nii Sowah Khartey, President of OAA '09 and a distinguished alumnus, addressed the students during the inaugural event sponsored by the SPE Ghana Section. He encouraged them to seize the opportunity presented by such programs to build fulfilling careers.

The seminar included a panel discussion focused on careers in ICT and the role of technology in the current job market. Moderated by Ms. Ohena Andoh, Founder of GIST Ghana and PM STEAM Educational Centre, the panel featured successful women from diverse STEM backgrounds: Mrs. Owusu-Ansah (Operations Geologist, Eni Ghana & former D&I Chair, and current SPE Ghana Chair), Ms. Sarpong (Exploration Team Lead, Eni Ghana & Deputy D&I Chair, SPE Ghana), Dr. Ansong (Founder & CEO, International Sickle Cell Centre, Ghana), Ms. Gbeho (Head of HR & Senior Management, Global Media Alliance), Ms. Semeordzi (Investment Professional & Commercial Affairs Manager, Letshego Ghana), and Ms. Agbenyegah (Software Engineer & Lead, Pyladies). The panellists not only shared their experiences but also challenged the students to pursue STEM education and defy potential obstacles in their pursuit of ICT careers. Additionally, a Q&A session addressed student concerns about navigating challenges faced by women in STEM fields. The session emphasized the importance of building valuable networks to thrive in the technologically competitive job market.

The seminar specifically aimed to empower girls and young women to excel in Science, Technology, Engineering, and Mathematics (STEM) careers. By equipping them with the necessary skills, the program envisioned these young women not only as users of technology, but also as creators shaping the digital world.

Mrs. Sheena Owusu-Ansah, who at the time was the Chair of the D&I Committee (she is currently the SPE Ghana Section Chair), reiterated the committee's dedication to promoting STEM education through collaboration and advocating for increased female participation within these fields. She emphasized the importance of commemorating International Girls in ICT Day at schools, allowing students to learn about the diverse career opportunities available within the technology sector.



2

2024 International Girls in ICT Day

This year's event was held at the Dzorwulu Junior High School under the theme "LEADERSHIP" where young girls were inspired to pursue careers in Information and Communication Technology. Through interactive sessions and engaging activities, an excellent opportunity to celebrate and promote the involvement of girls and young women in the field of Information and Communication Technology was fostered.



3 INTERNATIONAL EQUAL PAY DAY 2023 WEBINAR



SPEAKER
Samuel Stephen Nii Laryea Adjei
Chief Compliance Officer & International Affairs, SPE Ghana

MODERATOR
Rubabab Oseni
HR Officer, SPE Ghana

International Equal Pay Day, represents the longstanding efforts towards the achievement of equal pay for work of equal value. It further builds on the United Nations' commitment to human rights and against all forms of discrimination, including discrimination against women and girls.

Join Zoom Meeting
Meeting ID: 816 4004 2100
Passcode: 058461

SPE Ghana Section

To commemorate the Equal Pay Day on the 18th September, 2023, the D&I committee of the SPE Ghana Section organised a webinar moderated by Rubabab Ronke Oseni and facilitated by Mr. Samuel Stephen Nii Laryea Adjei. The webinar sought to address the pressing issue of wage disparities based on gender.

4 ENGINEERING, DIPLOMACY AND THE CRUCIAL ROLE OF FEMALE ENGINEERING PRACTITIONERS

The "June 2023 D & I International Day for Women in Diplomacy" event held on 24th June 2023 with Ing. Mrs Carlien Bou-Chedid; the immediate past president of FAEO as our speaker and Athina Osei Kyeremateng as the moderator. This discussion delved into the intersection of diplomacy and engineering, with a specific focus on the impactful role of female engineering practitioners in diplomatic efforts. The speakers underscored the necessity of diplomatic skills, especially within the petroleum sector, to tackle prevailing and emerging challenges such as economic growth, sustainability, safety, security, and resilience.

They emphasized the pivotal contributions of women in addressing these challenges.

The session commenced with an exploration of the correlation between diplomacy and engineering, highlighting how female engineering practitioners significantly contribute to diplomatic endeavors, particularly in the petroleum sector. An example was Condoleezza Rice, who used petroleum data to influence diplomatic strategy during her tenure as U.S. Secretary of State. According to Ing. Mrs Carlien Bou-Chedid, diplomacy comes into play in the petroleum industry during international cooperation agreements, negotiations for cross-border projects, and joint exploration projects. With the world moving towards a more sustainable and low-carbon energy future, she highlighted on the need for engineers to rightly use diplomacy to provide data and information about achieving this transition; being aware of environmental considerations and engage in negotiations to address these.

The speaker then emphasized on essential skills for women in the workplace to maintain harmony and achieve results.

These skills include effective communication, collaborative leadership, cultural sensitivity and empathy, conflict resolution and mediation, and advocacy for gender equality and inclusion.

Effective communication requires active listening, empathy, and rapport-building, while collaborative leadership emphasizes cooperation, consensus-building, and inclusivity. Cultural sensitivity and empathy help navigate differences among colleagues from various backgrounds, and conflict resolution and mediation skills are crucial for resolving disputes and de-escalating conflicts.

In sharing her personal experience, she explained how women often understand each other quickly due to shared experiences and suggested taking advantage of opportunities to sharpen skills through courses and practice. The speaker also highlighted the value of mentors and using everyday situations to hone diplomatic abilities. She shared her experience as follows;

- *Using diplomacy to pass the Engineering Council bill, emphasizing the need to master diplomatic skills in various situations, draft Memorandum of Understanding (MOU) to collaborate on promoting an Engineering Council Act as the president of a professional organization when there was tension between two engineering-related bodies in Ghana. Using her diplomatic skills, she managed to de-escalate situations and ultimately achieved their shared goal.*
- *During her presidency, she also focused on engineering advocacy, which involved meeting high-level public figures and advocating for the importance of engineers and women in national development.*

The speaker emphasized the unique skills possessed by women engineers, including communication, collaboration, and problem-solving abilities, which are invaluable for fostering diplomacy and achieving peaceful outcomes, especially within the petroleum sector. In addressing gender bias in student leadership, specifically the lack of female Student Representative Council (SRC) presidents in a male-dominated universities, the speaker, advised young females to use being sociable, building relationships, and finding mentors as key strategies for success in achieving leadership positions.

The role of organizations like the Society of Petroleum Engineers (SPE) and the Ghanaian Institute of Engineers (GHIE) in providing opportunities for professional growth and advancement through training, mentorship, and opportunities, conferences, seminars and competitions were emphasized. Attendees expressed appreciation for the insights shared and announced upcoming events aimed at further fostering professional development and collaboration.

5 DAY FOR THE ELIMINATION OF VIOLENCE AGAINST WOMEN

Nidra Araba Yeboah introduced the topic of International Day of Violence Against Women and discussed the importance of addressing workplace harassment in addition to domestic violence. She introduced Beatrice Brew, an experienced International Development practitioner, who spoke on the topic. Beatrice emphasized the importance of recognizing and addressing gender-based violence, as well as the impact on well-being and human rights. She highlighted the need for creating a culture of respect in the workplace and implementing anti-sexual harassment measures.



Beatrice discussed the importance of workplace culture and how it could lead to bad behavior if not properly managed. She highlighted the lack of respect in the workplace, especially when victims were sacrificed for the benefit of high-ranking staff members. Setting boundaries was identified as a key aspect of self-care and empowerment, both at work and in personal relationships. She mentioned societal expectations placed on women, such as being caregivers and maintaining harmony, making it challenging for them to assert boundaries and address harassment. Social stigma and lack of support networks were also noted as contributing factors to victims staying silent out of fear of being ostracized. Beatrice emphasized the need for institutions to address these issues to prevent reputational damage, lawsuits, setbacks in team dynamics, and other negative consequences.

She touched on reasons why individuals may not report incidents of harassment, such as lack of belief in being listened to or supported, sharing personal experiences of sexual harassment to illustrate these points. Beatrice also stressed the importance of recognizing signs of domestic violence and being proactive in addressing and preventing harassment and violence in the workplace. Additionally, she highlighted the significance of understanding and adhering to global standards regarding behaviors like hugging colleagues or touching their hair in the workplace.

The speakers emphasized the importance of respecting human rights and evolving cultural norms to ensure equality and dignity for all individuals. They suggested that dressing modestly could influence how men perceive and interact with women. They expressed gratitude to those who were willing to share their mistakes and past issues to help others learn and move on. They thanked the speakers Joyce and Beatrice for joining the session, as well as the members of the SPE who always showed up to events.

6 THE IMPACT OF DEMOGRAPHIC TRENDS ON FAMILIES; STRIKING THE BALANCE

The session began with an introduction to the topic, focusing on the impact of demographic trends on families and understanding the dynamics affecting families in modern society in achieving work-life balance amidst career goals and family responsibilities.

Mr. Akita, the resource person, introduced himself, highlighting his expertise in retail management and entrepreneurship, as well as his roles as a coach, counselor, and author.

During the session, Mr. Akita addressed various challenges individuals faced in balancing their career aspirations with family obligations.

He emphasized the importance of effective time management and prioritization to navigate these challenges successfully. He also highlighted the significance of personal development, spiritual growth, and fulfilling marital responsibilities in achieving a harmonious work-life balance. Additionally, he stated the importance of financial management and maintaining good health in achieving work-life balance. This highlighted the interconnectedness of financial stability, physical well-being, and overall family harmony.

Mr. Akita encouraged participants to express gratitude and appreciation for their loved ones, emphasizing the importance of nurturing strong family relationships. He motivated individuals to strive for an extraordinary life, suggesting the pursuit of continuous personal growth and improvement beyond ordinary goals and aspirations.

Acknowledging the role of technology in facilitating family connections, Mr. Akita stressed the irreplaceable value of in-person presence in strengthening familial bonds on special occasions like International Family Day and Mother's Day as opportunities to celebrate and honor family members.

Overall, the session provided valuable insights into the multifaceted nature of achieving work-life balance in the context of evolving demographic trends and underscored the importance of holistic well-being and familial relationships in leading fulfilling lives.

The purpose of the event was to educate individuals about breast cancer, encourage early detection, and provide support for patients and survivors. A survivor of breast cancer, Mrs Georgina Kumah-Dzagah was introduced as the speaker, who shared her experience and discussed the importance of awareness and early detection in fighting the disease. She shared her personal story about her experience with breast cancer.

"I initially ignored the pain and lump in my breast, thinking it was nothing."

After months of self-medication and dismissals from multiple doctors, she finally pushed for further investigations and was diagnosed with breast cancer.

She underwent various tests, including a biopsy, which confirmed the presence of cancer. She emphasized the importance of being proactive about one's health and seeking multiple opinions when necessary. Despite initial hesitation, the speaker eventually opted for surgery after considering alternative treatments.

Georgina also discussed her experience with cancer treatment, specifically undergoing chemotherapy for breast cancer. She also mentioned experiencing side effects such as darkening of the skin on her hands and potential nail loss. She described a concerning situation where her breast started discharging blood, leading to further investigations and ultimately discovering that there was still cancer present, requiring additional surgery. She also described her experience with radiotherapy treatment, including the simulation process and the daily sessions targeting the affected area. These ordeal resulted in side effects such as depression, confusion, fatigue, and low blood count. She also talked about the financial burden of treatment, including the cost of injections.

The speaker emphasized the importance of having a support system during treatment and mentioned coping strategies such as learning new skills, spending time with family, gardening,

7 WHEN FATE MEETS FAITH; A SURVIVORS EXPERIENCE WITH BREAST CANCER

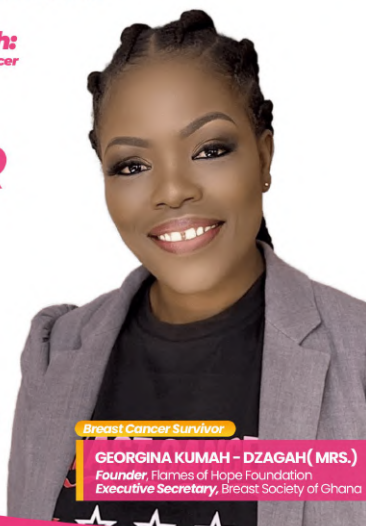


When Fate Meets Faith:
A Survivor's Experience With Breast Cancer

BREAST CANCER
SESSION



SOPHIA KWAKYE-MARFO
Deputy Scholarship Chair
SPE Ghana
Moderator



Georgina Kumah - Dzagah (Mrs.)
Breast Cancer Survivor
Founder, Flames of Hope Foundation
Executive Secretary, Breast Society of Ghana

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TUESDAY @ 12:00PM

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SPE Ghana Section

helping others, exercising, and seeking accurate information from medical professionals. She highlighted the importance of maintaining a positive mindset and faith throughout her journey.

Georgina also shed more light on the need for psychological healing to overcome the fear of cancer recurrence and the challenges with diet, nutrition, physical activity, and follow-up appointments post-treatment.

She talked about a patient navigator, helping individuals navigate their cancer journey and access necessary support beyond just early detection. She then discussed the impact of breast cancer treatment on fertility, breastfeeding, physical appearance, and potential risks such as lymphedema.

The financial implications of cancer treatment were also discussed, with insurance covering certain aspects but not all, leading to significant out-of-pocket expenses for patients.



DOWN **MEMORY** LANE



Throwback to 2010.
Sheena Owusu-Ansah with former Baker Hughes colleagues on a Geological Fieldtrip in Denver Colorado, USA.



YOUNG PROFESSIONALS

- 1** YOUNG PROFESSIONALS CAREER DEVELOPMENT
- 2** HEALTH WALK AND HEALTH SCREENING
- 3** AMBASSADOR LECTURE PROGRAM
- 4** SIP AND PAINT

2023-24



YOUNG PROFESSIONALS CAREER DEVELOPMENT

Career Opportunities and Experience along the Way

The Young Professional wing under SPE Ghana Section organized this career development webinar, which was targeted at students, graduates as well as industry professionals. The program was scheduled for Thursday, 20th July 2023 at 11:30AM GMT. The topic of discussion "Career Opportunities and Experience Along The Way" focused on providing in-depth enlightenment on the opportunities in the oil and gas industry in Ghana and across the world.

The speakers for the program were Dr. Juliette Twumasi-Anokye (Co-Founder & Principal Consultant for Anojul Afriyie & Co.), Engr. Effiong Okon Director (New Energy Seplat Energy PLC), Ato Aidoo (Managing Director for Soluserv Ghana Ltd.), and Jacqueline Jackson Cole (An Oil and Gas Professional). Afua Akoto, a Process Engineer with Ghana National Gas Company was the moderator for the webinar.

The program was a huge success with about 80 participants attending, 5 attendees registered with SPE, and avenues created for mentorship. Ato Aidoo who started off as a reservoir engineer agreed finding the right career path is quite challenging in this era. However, one need to keep developing and applying ourselves even if outside our discipline. Dr Juliette encouraged having study groups, to be curious even outside our field and put our pride aside to learn from everyone even if younger than us.

Engr. Effiong advised that though universities don't clearly state our future job roles they teach us business skills, critical thinking, problem solving etc. which we can use to be disciplined, resilient and dogged. Jacqueline inspired the audience to take on networking opportunities more and strive to position themselves to be on the global platform by becoming certified professionals. Emmanuel Mensah commented on the LinkedIn platform and its benefits which was very insightful.

In conclusion, participants showed appreciation to the Young Professionals Committee and at large SPE Ghana Section for such a wonderful piece of knowledge to the young graduates. Such programs should be encouraged to provide the leverage for career development to everyone within the oil and gas sector.

SPEAKERS

Ato Aidoo

Managing Director
Soluserv Ghana Ltd



Dr. Juliette Twumasi-Anokye

Co-founder & Principal Consultant,
Anojul Afriyie & Co
Extractive Governance, Lawyer &
Regulatory Expert



Engr. Effiong Okon

Director, New Energy
Sepiat Energy PLC



Jacqueline Jackson-Cole

Oil and Gas Professional



HEALTH WALK

& HEALTH SCREENING

On 9th December 2023, the SPE Ghana Section in collaboration with The New You (TNU) and Doctors Act organized a health walk on the Aburi mountain.

The objective of this walk was to encourage and teach members the importance of walking to our health. The walk commenced as the whole team met on top of the mountain at the Lodge Tavern.

The team walked down the mountain and returned to the Lodge Tavern and continued with the aerobics session led by the participants were taken through aerobics upon returning to the Lodge Tavern which was led by TNU. Participants went through the health checks for cholesterol level, sugar level and blood pressure; organized by Members from Doctors Act; with an educative and interactive session on the importance of exercise and healthy eating followed by participants asking questions .

Finally, SPE Ghana Section led by Fiifi Otoo, YP Chair showed appreciation to the The New You (TNU) and Doctors Act for their collaboration and discussed future collaborations.



AMBASSADOR LECTURE PROGRAM AT UNIVERSITY OF GHANA, LEGON

The Young Professionals (YP) Committee of the SPE Ghana Section organised an Ambassador Lecture Program (ALP) at the University of Ghana (UG), Legon on 31st October 2023.

This event was hosted in partnership with the University of Ghana SPE Students Chapter at the Department of Earth Science at the University of Ghana.

The main speaker for this ALP was the YP Chair of SPE Ghana Section, Fiifi Nyarkoh Otoo who also works with the Petroleum Commission as a Subsea Engineer. He presented on his involvement with SPE since his first degree at the University of Mines and Technology (UMaT), Tarkwa through to his professional life and continued to his Masters' degree at the University of Aberdeen.

Fiifi further shared some industry challenges and future projections as well as details of his career path. In addition, he touched on the industry technologies and trends. He talked about his current role, sharing some challenges and his future projections concerning his career as well as future projects in the oil and gas industry in Ghana. In relation to the industry in Ghana, he talked on the producing fields in Ghana as well as license areas that are currently under exploration, appraisal and pre-development phases.

Fiifi talked about SPE, sharing the vision and mission as well as benefits of being an SPE member, especially students' membership. In addition, he touched on the SPE demographics, SPE Cares and Energy4me activities. He talked about what the oil and gas professionals are doing in challenges such as energy transition. He pointed out to the students that the oil and gas industry is multidisciplinary with various opportunities.



In conclusion, Fiifi engaged the students who were willing to join SPE on the benefits as well as informed the Student Chapter executives to take contacts of these students and continuously engage them in SPE activities.

Post the ALP, the YP Chair engaged the students' executives of UG Chapter on the progress of the Chapter as well as suggested ways to increase the membership of the Chapter.

Essential Award
SPE
OUTSTANDING
SECTION
2023

SPE
International
Ghana Section

Ambassador Lecture Program

SPEAKER FIIFI OTOO
YOUNG PROFESSIONALS
CHAIR

31st OCT
2023

University of Ghana, Legon
Department of Earth Science
lecture room 1

3:30 - 4:30
PM PM



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The SPE Ghana section also had a fun time together to sip and paint. It was also an avenue to network and build strong connections





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LECTURER™

HOW OIL AND GAS COMPETENCIES ARE SHAPING LOW-CARBON ENERGY TECHNOLOGIES

With the ever-evolving energy mix amidst heightened calls globally for the reduction in greenhouse gas (GHG) emissions

generated by the energy sector, low-carbon energy technologies are gaining prominence.

In this regard, on Monday, 22nd January, 2024, Professor Rita Esuru Okoroafor of Texas A&M University delivered a Distinguished Lecture at 13.00GMT to participants gathered at Petroleum Commission, Accra, on the topic, "How Oil and Gas Competencies are Shaping Low-Carbon Energy Technologies." Her presentation focused on indicating how to leverage the similarity in skill sets between the mature oil and gas industry, and low-carbon energy technologies, particularly, carbon dioxide storage, underground hydrogen storage, and geothermal energy.

In analyzing the evolving energy mix, Professor Rita Esuru Okoroafor introduced participants to the past, current, and projected percentage share of primary energy demand attributed to various sources of energy supply such as coal, oil, natural gas, nuclear, wind, solar, and other renewables from 2021 to 2050. She further discussed oil and gas decarbonization strategies in processes such as methane and flaring, energy efficiency and conservation, carbon capture utilization and storage, and low-carbon hydrogen.

She then presented a, "Petroleum Industry to Low-Carbon Energy Technologies Competency Map," that showed where the core petroleum engineering competencies and non-core petroleum engineering skills fit in the low-carbon energy space.

Professor Rita Esuru Okoroafor later explained the carbon dioxide storage value chain, and provided case studies on how oil and gas expertise applicable in well quality evaluation for CO₂ storage such as Geographic Information System (GIS) mapping, cement and well integrity evaluation, petrophysics, drilling engineering, Health, Safety and Environment (HSE), and digitization and data analytics could be useful in enhancing carbon dioxide storage. She followed this up with an overview of the hydrogen storage value chain, and similarly cited case studies on how oil and gas industry competencies such as numerical simulation, Geographic Information System (GIS) Mapping, and reservoir engineering could be helpful in enhancing underground hydrogen storage.

After giving an introduction to geothermal energy development, Professor Rita Esuru Okoroafor provided a case study on improving recovery from enhanced geothermal systems, and subsequently outlined how oil and gas industry skill sets such as geostatistics, rock mechanics, and petrophysics could be vital in modeling enhanced geothermal systems.



SPE DISTINGUISHED LECTURER™

In a tone of finality, Professor Rita Esuru Okoroafor shared with participants available upskilling and reskilling pathways such as advanced degrees, certification programmes, short courses, technical mentorship, and self study as well as SPE resources which could be utilized for the same purpose, including, but not limited to, SPE Energy Stream, Distinguished Lectures, technical sessions, SPE Journals and Papers, conferences and workshops, and E-mentoring. The major takeaways from the presentation included the fact that a lot of petroleum engineering and geoscience skills are transferable to many low-carbon energy technologies, core oil and gas technical competencies have a strong fit with geothermal energy, carbon dioxide storage, and underground hydrogen storage, and the fact that many reskilling and upskilling ways exist to hone oil and gas industry skills for usage in low-carbon energy technologies.



DOWN *MEMORY* LANE



2010,
*Baker Hughes Takoradi Workshop. Lilian
Buabeng (née Forson)*

CAREER GUIDANCE & OUTREACH

1

CAREER DEVELOPMENT

2

E-MENTORSHIP

3

CAPACITY BUILDING

1

CAREER DEVELOPMENT

CAREER GUIDANCE & OUTREACH



The moderator, Clement Mantey Annor, introduced the Career Development webinar with a focus on navigating the career path in the Ghana oil and gas industry. The webinar aimed to bridge the gap between theoretical knowledge and practical industry requirements. The first speaker, Mr. Daniel Oppong, discussed the difference between a job and a career, highlighting that a job is what one does to get paid, while a career is a lifelong journey that requires continuous professional development. He emphasized that a job may not necessarily provide a career path or growth opportunities, and that a career is a self-directed journey focused on growth, learning, and development.

Mr. Daniel further discussed the importance of identifying one's strengths and finding a career area within the engineering field. He emphasized the need to evolve by finding a job family within one's chosen area where skills can be developed and grown. Collaboration with peers and building team collaboration skills were emphasized for success in the workplace. Networking was also highlighted as a key factor in securing employment in the oil and gas industry, with horizontal networking being particularly beneficial. The landscape of the industry in Ghana had evolved, offering more opportunities for those who could demonstrate their value and competence. Personal experiences were shared, emphasizing the importance of preparation, knowing what employers want, and delivering top-notch work to succeed in the industry.

Sheena Owusu-Ansah shared her initial plan to pursue medicine to become a heart surgeon but ended up taking a geology course during her studies at Legon University. Despite not getting into medical school, she found geology interesting and decided to pursue it further. Eventually, she transitioned to working in the oil industry after a chance encounter with former exploration geologists. This unexpected career path highlighted the importance of being open to new opportunities and adapting to changes in one's plans.

Derrick Klutsey; the Head of the Career guidance and outreach committee emphasized the importance of being confident in oneself and in the career being built, rather than just in the current job or qualifications. He discussed how many young professionals may doubt themselves early in their careers but need to have confidence in their ability to learn and grow. The speaker warned that self-doubt could lead to negative perceptions from colleagues, impacting work performance. Confidence in oneself as an individual was highlighted as essential for professional development and success.

The speakers mentioned that major companies like Shell and BP were shifting towards cleaner energy sources like gas. They advised recent graduates aspiring to enter the oil and gas industry to focus on developing their skills and being adaptable to industry changes.

MASTERING CROSS-FUNCTIONAL SKILLS FOR CAREER PROGRESSION IN THE GHANA OIL AND GAS INDUSTRY

Career Development

The poster is for an event titled "MASTERING CROSS-FUNCTIONAL SKILLS" organized by the "Career Guidance and Outreach Committee". It is for "Career progression in the Ghana Oil and Gas Industry". The event is on "Feb 10th" at "1:00PM GMT". The speakers are "Ing. Charles Anafi" (Ghana National Gas Company) and "Eben Amoah-Kyei" (Reservoir Engineer, ENI). The moderator is "Victoria Mends". The poster also includes the SPE Ghana Section logo and contact information: "ID: 864 9369 9069" and "Passcode: spegh".

Victoria Mends began with an icebreaker activity where participants shared different cross-functional skills they knew. Engineer Charles Anafi, a professional chemical engineer with expertise in the oil and gas sector, introduced himself. He emphasized the importance of cross-functional skills in the industry and discussed their relevance, how to attain and master them, and what came next after mastering them. He emphasized that being cross-functional also involved taking on different portfolios with varying key performance indicators and successfully delivering outcomes.

This skill was crucial for working in multifunctional teams and collaborating effectively with diverse personalities and expertise levels. The speaker shared a personal experience where he had to navigate a conflict in his organization despite having technical expertise. He emphasized the importance of developing soft skills, such as being a team player and having a desire to be useful to society, in addition to technical skills. They discussed the process of identifying strengths, weaknesses, and interests to develop a career plan. The speaker also highlighted the importance of being a continuous learner, staying focused, being open to new experiences, and embracing failure as a stepping stone towards success.

Engineer Eben Amoah-Kyei introduced himself as a petroleum and reservoir engineer with a background in petroleum engineering and mining and mineral engineering. He emphasized the importance of adaptability, communication, soft skills, problem-solving, resource management, and business awareness in their industry. He stressed the need for cross-functional skills and the ability to multitask in modern organizations. He emphasized the importance of understanding how technical expertise impacted various aspects of business, such as finances and social license to operate. Engineer Eben discussed the challenges of working with people from different disciplines and overcoming communication barriers, terminology differences, and conflicting objectives. To address these challenges, he recommended establishing clear goals, defining roles and responsibilities, promoting open communication, and encouraging cross-training and knowledge sharing. By fostering a collaborative and inclusive environment, teams could effectively work together across functions to achieve common goals. They highlighted the need for continuous learning in rapidly evolving industries like oil and gas, suggesting avenues such as formal education, online courses, workshops, seminars, conferences, and professional development programs. Networking, mentorship, participating in cross-functional projects, and seeking feedback through performance reviews were also recommended as ways to stay updated on skills and avoid distractions from other disciplines.

CAREER GUIDANCE SESSION

CAREER PATHWAYS AND GAINING INSIDER INTO INDUSTRY TRENDS

Mr Derrick Klutsey of the Career Guidance and Outreach committee had a career guidance session with Kumasi Technical University students on March 1st, 2024 providing attendees with valuable insights and advice on career development in the oil and gas industry. Industry professionals and experienced speakers shared their expertise, discussing career pathways, job opportunities, and strategies for success in the industry.

The session proved to be highly informative and beneficial for attendees, offering practical guidance and actionable tips for advancing their careers in the oil and gas industry. It empowered participants with knowledge and resources to make informed decisions about their professional development and future aspirations.

2

E-MENTORSHIP

CAREER GUIDANCE & OUTREACH



SPE GHANA SECTION
Career Guidance and Outreach Committee

E-MENTORS TRAINING

MODERATOR
Akosua Gyan-Bandoh
Mentorship Sub-Committee Head



March 13th



3:00PM GMT



ID: 813 9158 7561
Passcode: spegh



RESOURCE PERSON

Samuel Stephen Nii Laryea Adjei
Dep. Chair of Career Guidance and Outreach, SPE Ghana

SPE Ghana Section



E-MENTORSHIP

The SPE Mentorship Program commenced with a training session on March 13, 2024, helmed by Akosua Gyan-Bandoh, Head of the Mentorship Subcommittee, and Mr. Samuel Stephen Nii Laryea Adjei, Deputy Head of the Career Guidance and Outreach Committee, as the speaker.

Mr. Adjei initiated the session by explaining the paramount importance of fostering self-confidence in students, young professionals, and middle-level professionals. Central to his discourse was the role of mentoring in cultivating positive attitudes and requisite skills for the workforce, thus facilitating personal development across career, professional, and academic domains.

Furthermore, Mr. Adjei delineated the core responsibilities of mentors, stressing the significance of maintaining consistent communication with mentees, mutual respect for each other's time, and establishing clear expectations from the outset of the mentorship relationship. A structured plan of action, comprising regular sessions and assignments, was deemed essential for the effective realization of mentorship objectives.

The discussion then transitioned to the do's and don'ts of mentorship, with emphasis on the necessity of having clear communication channels between mentors and mentees. He also stated the importance of upholding professionalism in all interactions, advocating for adequate preparation before meetings, the provision of constructive feedback, and the judicious management of time and energy commitments.

Challenges inherent to mentorship, such as incongruent mentor-mentee pairings and unrealistic expectations, were duly acknowledged and addressed. Participants were enjoined to eschew manipulative tendencies and foster independence within the mentor-mentee dynamic. Integral to the mentorship, is the cultivation of mentees' self-esteem. Mr. Adjei suggested mentors employ methodologies such as the 16-personality test, to tailor their guidance to the unique strengths and weaknesses of their mentees, thereby instilling a sense of self-assurance and efficacy. The session culminated in a reflection on the transformative potential of mentorship, underscored by personal anecdotes and shared experiences.

The training session served as a poignant reminder of the invaluable role played by mentorship in nurturing talent and fostering resilience within the professional sphere. Participants departed imbued with a renewed sense of purpose and commitment to the mentorship ethos, poised to effect meaningful change within their respective spheres of influence.



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SPE GHANA SECTION

Career Guidance and Outreach Committee

MENTEES TRAINING

MODERATOR

Frederick Ayithey

Mentorship Sub-
Committee



March 22nd



1:00PM GMT



ID: 890 0651 7525
Passcode: spegh



SPE Ghana Section

RESOURCE PERSON

Dorothy Eyetsa Fiatui

Mentorship Sub-Committee
Dep. Head

E-MENTORSHIP

Dorothy concluded the session with a call to action, urging mentees to seize the mentorship opportunity by actively engaging with mentors, seeking resources, and leveraging networking opportunities for holistic personal and professional growth. The mentor, depicted as a guide and supporter, was positioned as a catalyst for mentees' success.

Expressions of gratitude were extended to Dorothy for her insightful presentation, and Mr. Samuel Stephen Nii Laryea Adjei, Deputy Head of Career Guidance and Outreach, reinforced the notion that one's network is indeed their net worth. Encouragement was imparted for full engagement and participation to maximize the benefits of the mentorship program.

The session ended with appreciation for all participants, signifying the commencement of an enriching mentorship journey.

THE ONBOARDING PLAN OF THE E-MENTORSHIP

Sub Subcommittee under the Career Guidance and Outreach Committee included a training session for mentees on March 22, 2024. Frederick Ayithey moderated the session, while Dorothy Eyetsa Fiatui served as the speaker. The objective was to introduce participants to the mentorship program and underscore the benefits of taking part in the mentorship for the next six months.

Dorothy commenced with a reflective exercise, prompting participants to recall instances of feeling lost or uncertain, emphasizing the transformative impact a mentor could have had in those moments. Drawing from personal experience, she articulated the pivotal role mentors play in providing guidance, support, and sharing knowledge to facilitate mentees' personal and professional growth. Dorothy's journey, guided towards engineering by a mentor, served as a testament to the profound influence mentorship can wield in shaping career trajectories. She recounted how stepping out of her comfort zone, with the aid of mentorship, bolstered her confidence and honed her professional skills.

Reiterating the expectations placed on mentees, Dorothy underscored the importance of building a professional rapport with their mentor, actively seeking guidance, and taking ownership of their development journey. Emphasizing communication as paramount, she urged mentees to be receptive to feedback and exhibit gratitude through actionable efforts. Expectations of mentors were also addressed, with an emphasis on providing encouragement, direction, and support.



3

CAPACITY BUILDING

CAREER GUIDANCE & OUTREACH

INTRODUCTION TO COMPUTER PROGRAMMING AND ARTIFICIAL INTELLIGENCE



In pursuance of one of the three-fold mandate of the Career Guidance and Outreach Committee, to provide opportunities to develop needed skill sets in the workforce, a three-day capacity-building programme on computer programming and artificial intelligence (AI) was held on December 9, 10, and 23, 2023, within the hours of 3.00pm and 5.00pm each day. With Dickson Agyei Jnr, a co-founder of Alle-AI, a nascent start-up that focuses on making efficient and effective generative AI tools easily accessible to users to enjoy all the benefits that major generative AI models could offer, and Samuel Asamoah Kyeremateng, a member of the Capacity-Building team, as the resource person, and moderator respectively, the timely programme aimed to enhance participants' employability in our fast-paced technology-driven world, elevate problem-solving capabilities, and foster creativity, with an application to the energy industry.

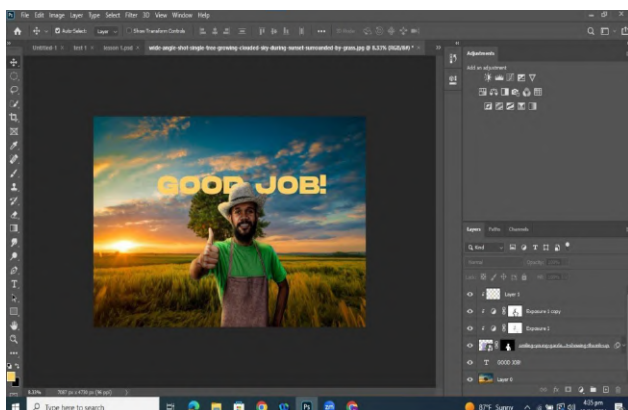
Graced by about 28 people, the first session began as an introductory ground to AI, after which the resource person provided a comprehensive introduction to the concepts of programming using Python by treating topics such as variables, data types, loops, and conditional statements. The second session of the programme, attended by 9 people, covered the essential steps to integrate GPT-3 into Python

projects through obtaining an Application Programming Interface (API) key from OpenAI, installing the required Python library, and importing the library and using its functions to interact with the GPT-3 model. Equally worth mentioning, Dickson explored how to train GPT-3 on custom datasets, enhancing its ability to generate texts that reflect particular styles, topics, or knowledge areas with a case in point being a modification which was done fine-tuning the model to only produce responses in Twi, a Ghanaian language. Dickson proceeded to showcase GPT-3's versatility beyond Python by introducing the concept of APIs as bridges between applications, enabling interaction with GPT-3 from other programming languages such as JavaScript, Java, and PHP. In the third session, which was attended by nine (9) participants, the beneficiaries explored the practical application of AI in the energy industry by guiding participants through constructing a functional AI system capable of estimating gas properties using the Z-factor, also known as the compressibility factor, as a key input. The system architecture for Z-factor calculation involved using a pre-defined Python function. The function was built to accept pseudo-reduced temperature and pressure as inputs, incorporating fundamental thermodynamics principles to determine the Z-factor. As regards an AI-based property production, the GPT-3 model was integrated into the system. The calculated Z-factor was then fed as an input to the AI model, enabling it to predict the properties of the gas, especially the extent to which the gas deviates from an ideal gas.

On balance, the three-day programme effectively equipped participants with a strong foundational knowledge in computer programming and AI with application in the energy industry. It did not only provide essential skills but also opened doors to the realm of opportunities, exploration, and innovation.

The speaker, Prince Henry, discussed the importance of using graphics to effectively communicate ideas, especially in industries like engineering where prototypes are created regularly. He explained the interface of Photoshop, which was divided into three main sections: the tools bar, the workspace, and the panels. The speaker demonstrated how to save a file as a PSD, make changes to it, and then save it as a different PSD or as a JPEG by using the “Save As” option. The importance of the brush tool in layer masking was highlighted, and the text tool was explained, allowing users to add and customize text in their designs. The layers panel was likened to placing things on top of each other, similar to an onion, to create complex designs. Understanding layers was crucial for creating exciting designs in Photoshop.

Participants were encouraged to use the Photoshop app for a better learning experience, with assurance of guided step-by-step instruction.



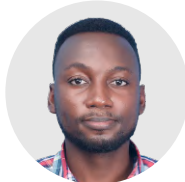
The speaker emphasized the importance of color harmony and limiting color schemes to three or four colors for beginner designers. Additionally, he created a shadow under the podium to make it appear more realistic, explaining the process of positioning the shadow beneath the podium layer and adding a blur effect to enhance realism. The speaker then discussed using a website called FreePik for graphic design elements and templates but preferred to create their own designs for originality. Prince discussed the importance of presentations for engineers and how graphics played a crucial role in conveying information effectively. He introduced Microsoft PowerPoint as a tool commonly used for presentations and emphasized the need for simplicity and visual appeal in design. Prince also explained the different tabs and groups within PowerPoint, highlighting the functionality of each and how to navigate through the application. He stressed the importance of keeping color schemes simple and using hints rather than cluttering slides with excessive content. The speaker demonstrated how to add elements such as shapes, fonts, and graphics to the slide master, which would then be reflected on all slides. He showed how to hide background graphics on specific slides if needed. The slide master allowed users to save their customized design as a template for future use, making it easy to maintain a cohesive look throughout the presentation. The speaker emphasized the use of animations to draw attention to specific points on the slides and engage the audience effectively. He stressed the importance of using animations to enhance presentations and encouraged continuous learning and skill development.



2023/24 SECTION OFFICERS



Sheena Owusu-Ansah
Section Chair



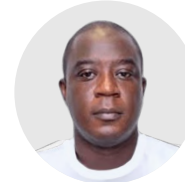
James Allotey-Okai
Programs Chair



Sampson Boamey
Deputy Programs Chair



Joseph Willie Amoah
Deputy Programs Chair



Ato Debrah
Treasurer



Ing. Daniel Boateng Akuoko
Deputy Treasurer



Rubabat Oseni
Diversity and Inclusion Chair



Ama O. Sarpong
Deputy Diversity and Inclusion Chair



John Swatson
Deputy Diversity and Inclusion Chair



Fifi Otoo
Young Professional Chair



Alexander Ofori Mensah
Deputy Young Professional Chair



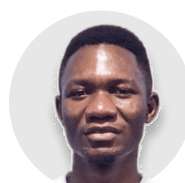
Abena Owusua Yeboah
Deputy Young Professional Chair



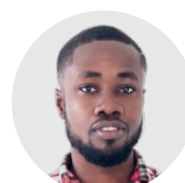
Yaw Frempong Koduah-Sarpong
Membership Chair



Derek Kwesi Okai
Deputy Membership Chair



Nicholas Abakah Eshun
Communication Chair



Julian Akron
Dep Communication Chair



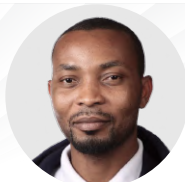
Vincent Nana Boah Amponsah
Dep Communication Chair



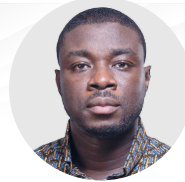
Philip Banini
Students Liaison



William Bakorkor
Deputy Students Liaison



Prof. Richard Amorin
Academic Faculty Chair



Dr. Stephen Adjei
Deputy Academic Faculty Chair



Derrick Edem Klutse
Career Guidance and Outreach Chair



Samuel Stephen Nii Laryea
Deputy Career Guidance and Outreach Chair



Obed Tanlon
SPECares Chair



Doron Antwi
Deputy SPECares Chair



Dr. Yaw Boakye Ansah
Scholarship Chair



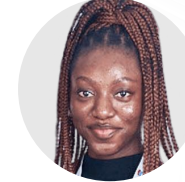
Sophia Kwakye Marfo
Deputy Scholarship Chair



Maame Fokuo
Secretariat Chair



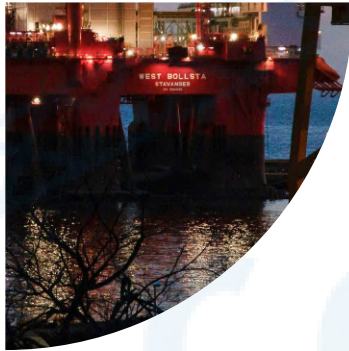
Leo Andoh
Deputy Secretariat Chair



Rachael Erhabor
Deputy Secretariat Chair



Riverson Oppong
PhD.
Past Section Chair/ Section Director



PUTTING GHANA FIRST

TULLOW'S LOCAL CONTENT SUCCESS STORY

Today, more than 70% of Tullow's workforce for its Ghana operations are locals with 32% (\$202m) of the total value of contracts (\$619m) awarded in 2023 going to indigenous entities (a 4% increase from 2022). Additionally, \$317m worth of contracts were awarded to Joint-Venture companies (part Ghanaian and part foreign ownership) that same year. Over the past decade, Tullow has awarded contracts worth \$10.7 billion to businesses with significant local participation in the sector.

Tullow Ghana, the main operator of the Jubilee and TEN fields demonstrates a strong commitment to local talent and expertise in its offshore assets in West Africa for over two decades. Since 2007, the company has prioritized sustainable development and community engagement, implementing a robust local content strategy to maximize Ghanaian participation in the upstream sector. This approach aligns with the demands of the petroleum agreement with Ghana and has led to transformative outcomes, highlighting Tullow Ghana's pioneering role in promoting local content development in the region.

Tullow Ghana demonstrated its commitment to local capacity building and ethical practices through various initiatives last year. The company organized six training workshops in partnership with the Petroleum Commission/Tullow Business Academy, strengthening ties with external stakeholders. It also prioritized transparency and collaboration by hosting four Supplier Market Day events and completing five supplier training programs nationwide. Notably, 140 suppliers received training on safeguarding human rights within the supply chain sector.

This project also showcased local capacity development, with Orsam Energies, a local company, fabricating one of the world's most complicated subsea equipment at the Takoradi fabrication yard, with a 90% Ghanaian workforce. Tullow's initiatives underscore its dedication to empowering local communities and fostering sustainable development in Ghana's energy sector.

Managing Director Wissam Al-Monthiry emphasized Tullow's commitment to Ghana's local content, citing contributions of close to \$7bn in revenues to the government and nearly \$20bn in sector investments. Tullow's focus extends beyond resource utilization to building local capability through education and skills transfer, particularly in the Western region where it operates. Over \$10m is being invested in educational infrastructure in key regions, supporting secondary schools, scholarships, and livelihood programs.



DOWN **MEMORY** LANE



Throwback to
2009 Dubai, UAE
**During “Quick Start academy” for newly
hired field engineers. John Swatson, Kofi
Bakah, Samuel Yankson, Daniel Peprah**

NAICE '23

NIGERIA ANNUAL INTERNATIONAL CONFERENCE AND EXHIBITION (NAICE) 2023

The SPE Ghana section, led by Dr. Riverson Oppong, actively participated in the SPE NAICE 2023 conference held in Lagos, Nigeria from July 29th to August 2nd, 2023. The event, organized by the SPE Nigerian Council, has been a prominent fixture since 1976, serving as a platform for gathering and disseminating technical knowledge and cutting-edge technologies within the energy industry across Sub-Saharan Africa.

With the theme 'Balancing Energy Accessibility Affordability and Sustainability; Strategic Options for Africa', the conference focused on addressing crucial issues surrounding energy accessibility, affordability, and sustainability. It featured panel discussions and technical presentations delivered by industry experts, offering attendees valuable insights into strategic solutions. Additionally, the conference facilitated networking opportunities for professionals and provided a platform for companies to showcase their products and services, enhancing collaboration and advancement within the sector.

on **July 29th, 2023**, the SPE Ghana Section team convened at Kotoka International Airport for their scheduled flight, arriving safely at Murtala Mohammed International Airport and subsequently being transported to the Eko Hotel. Upon arrival, they received an orientation regarding the state of affairs in Lagos and were advised on ensuring their safety and convenience during their stay.

On **July 30th, 2023**, a series of significant events unfolded within the SPE community. The day began with the SPE Africa Regional Section Officers Meeting & Workshop, held from 0800hrs to 1300hrs, focusing on "Transformational Leadership: Channel to Grow People Through Performance." Engr. Felix Obike, the SPE Nigeria Council chair, commenced the session with a welcoming address, stressing the importance of networking. Mrs. Oghogho Effiom, the SPE Africa

Regional Director, emphasized the workshop's role in nurturing future SPE leaders and encouraged active participation. Mr. Temitope Oshuntuyi of ExxonMobil delivered a presentation on transformational leadership, discussing John Maxwell's five levels of leadership.

Additionally, a presentation on the Data Science and Engineering Analytics Technical Section (DSEATS) underscored its mission to accelerate digital asset lifecycle management and facilitate energy transformation. Attendees were encouraged to join DSEATS, and a raffle draw sponsored by Mrs. Oghogho Effiom awarded a free SPE ATCE registration. Engr. Isemin Isemin delivered closing remarks.

Later in the day, the NAICE SPE Young Professionals (YP) Away Day commenced at Timeless Beach Resort, Okun - Lagos. Buses transported participants from Eko Hotel, arriving at the resort after a lengthy journey. Seven groups engaged in various fun activities, with the top performers receiving gifts. The event concluded with group photos, videos, and dancing, followed by snacks and lunch. Despite challenges with Lagos traffic, participants enjoyed the networking opportunities and the overall experience.

The day culminated with the BOT Chairman's Dinner at the Eko Hotel poolside, from 1700hrs to 18:30 hrs. Engr. Felix Obike opened the evening, stressing the significance of the event in fostering professional connections. Throughout the dinner, guests interacted warmly, forming new acquaintances and eagerly anticipating the upcoming conference. The relaxed atmosphere provided an ideal setting for meaningful exchanges and the creation of valuable connections.



AFRICA YOUNG PROFESSIONALS' WORKSHOP

On day 3; July 31st, 2023, the Africa Young Professionals' Workshop, themed "Meeting Africa's Energy Needs and Aspirations: Options and Opportunities for Young Professionals," took place from 13:00 hrs to 17:00 hrs as part of the 2023 NAICE activities.

The workshop began with opening remarks from key figures: SPE President Medhat Kamal, SPE Africa Regional Director Oghogho Effiom and Young Professionals (YP) Chair Mistura Yusuf. Kamal emphasized the crucial role of Young Professionals (YP's) in the industry's success and urged YP's to stay informed about industry trends and emerging technologies to effectively address challenges. Effiom commended YP's for their passion and problem-solving approach, stating that they serve as a source of inspiration. Yusuf encouraged YPs to maintain an inquisitive mindset and equip themselves with relevant skills to contribute effectively to addressing Africa's energy challenges.

Yetunde Taiwo, General Manager of Integrated Gas Development at First E&P then delivered the keynote speech on the workshop theme. Taiwo emphasized that African YP's face higher risks in terms of energy accessibility compared to other demographics. She stressed the importance on YP's taking proactive steps to bridge this gap, highlighting the power of technology as a solution to Africa's energy challenges.

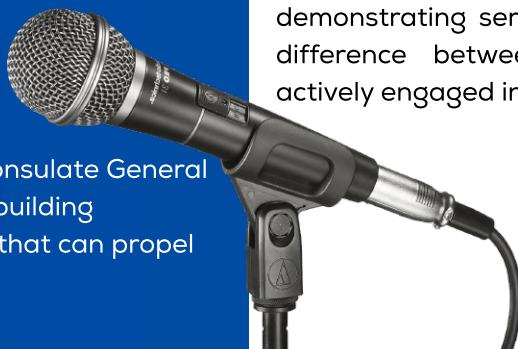
FIRST PANEL DISCUSSION

Continuing with the Africa Young Professionals' Workshop, the first panel discussion, moderated by Olamide Atoyebi, addressed the workshop theme key insights with the panellists. Oladipo Ashafa, Technical Planning and Integration Manager at Shell Deepwater Nigeria, emphasized the importance of cultivating an entrepreneurial mindset to address Africa's energy deficit, especially for those who may not secure traditional white-collar jobs. Jordan Lachance, Political/ Economic Officer at the U.S. Consulate General in Lagos, highlighted the significance of building partnerships to form strategic alliances that can propel one's career.

He also stressed the potential of AI in solving Africa's energy challenges. Celestina Yaaba Kissi, Offshore Chemist at Champion X Ghana Limited, emphasized the value of serving and gaining experience, particularly in the context of building one's career. Roli Ajayi, an Independent Consultant, encouraged young professionals to leverage their diverse skill sets to address societal needs and remain open-minded towards finding solutions. Adegun Adedamola, Head of Gas Commercial and Non-Oil Unit at NNPC E & P Limited, underscored the importance of ambition and preparation in seizing opportunities. He emphasized the need for focusing on solving Africa's unique problems and using local initiatives to tackle local challenges.

SECOND PANEL DISCUSSION

The second session featured a meet-and-greet with past NAICE YP Chairs and a panel discussion titled "A Decade of Excellence: Celebrating Milestones, Inspiring Futures." Ugochi Akwivu-Onyike, Young professionals (YP) Chair (2015), emphasized the importance of maximizing opportunities within limited timeframes and being direct when seeking mentorship. Etta Agbor, YPPC Chair (2013), highlighted the significance of preparation meeting opportunity and the role it plays in achieving success. Adebola Bada, YPPC Chair (2014), encouraged young professionals to leverage SPE opportunities for leadership development and to serve as mentors to emerging professionals. Engr. Francis Oko, YPPC Chair (2017/2018), emphasized the rewards of voluntary and selfless service, highlighting the importance of serving others. Oluwabiyi Awotiku, YPPC Chair (2019/2020), stressed on the importance of actively contributing and demonstrating servant leadership, emphasizing the difference between merely being present and actively engaged in making an impact.





Ghana Section



THE AFRICA ENERGY TRANSITION DEBATE GRAND FINALE

The Africa Energy Transition Debate Grand Finale, moderated by Omoluabi Okeoghene, concluded the day's events. The topic, "As key drivers of Change, Africa's Young Professionals are ready to harness future Opportunities across the continent's energy sector," was debated by teams from Ghana and Benin City.

The Ghanaian team, represented by Ama O. Sarpong, Yaw Frempong Koduah-Sarpong, and Philip Kwasi Banini, argued against the motion, while the Benin City team members, including Chdozie Agbo, Olajuwon Ifalade, and Stanley Anochie, supported it. The panel of judges, consisting of Deb Ryan, Debo Fagbami, and Chizeke Nwosu, unanimously declared the Ghanaian team as the winners of the 2023 debate. Awards were presented to both teams to commemorate their participation. Olawale Ajayi, YPPC Co-chair, delivered the closing remarks, expressing gratitude to all stakeholders and sponsors and congratulating the Ghanaian team for their victory. The event marked the conclusion of all activities for the day.



THE AFRICA ENERGY TRANSITION DEBATE GRAND FINALE

1st August 2023, marking day four commenced with the Women Leadership Program, held under the theme "African Energy Markets: Leveraging Female Development Opportunities." The event took place at the Grand Ballroom at the Eko Hotels and Suites from 1:30pm to 17:00 hrs.

Engr. Felix Obike, the SPE Nigeria Council Chair, delivered the welcome address, recognizing the significant contributions of women in SPE activities and expressing optimism that the discussions would inspire young women. Mr. Medhat M. Kamal, the SPE International President, emphasized the need to increase women's participation within SPE further, encouraging continued involvement, volunteerism, and advancement.

The keynote address was delivered by Professor Yinka O. Omorogbe, Senior Advocate of Nigeria and President of the Nigerian Association for Energy Economics. Prof. Omorogbe highlighted the opportunities and challenges in Africa's energy market, stressing the need for improved energy planning to benefit all, especially rural areas. She cited Morocco's electrification program as a successful example and called for alignment between government policy, law, and implementation. Prof. Omorogbe emphasized women's rights as human rights and outlined challenges hindering opportunities for women, including biases, stereotypes, and limited access to networks. She urged women to be firm in their decisions and not let limitations hold them back, emphasizing their equal capability.

FIRST PANEL DISCUSSION

Event for the day continued with a panel discussion moderated by Dr. Ibilola Amao, Principal Consultant at Lanadek Inc., which focused on "Global Opportunities, Risks, and Threats facing Industry Women in the current Energy Trilemma (Energy Affordability, Accessibility, and Sustainability)." with panelists sharing key points:

Ing. Debo Fajbam, Chief Operating Officer at Xernergi Limited, emphasized Africa's need for intentional development. Grace Orefe from the Africa Energy Chamber advocated for increased STEM training for women and more female role models in engineering. Godfrey Ogbechie, Group Executive Director at Ranoil Limited and founder of Energy Women's Network, highlighted the challenges women face in the energy business and called for educational reforms and collaboration for energy sustainability. Oritsemeyiwa Eyesan, Chief Strategy and Sustainability Officer at NNPC Limited, emphasized the importance of grassroots education and strategic alliances for female empowerment. Evi Ifekwe, Executive Director at Total Energies EP Nigeria, called for investment in human capital and collaboration across networks to enhance the energy sector's future.

ROUND TABLE DISCUSSION

Continuing with the program, a roundtable discussion on "Recalibrating in the Post-Covid-Technology driven work regime: work-life integration vs work-life balance" was conducted. Engr. Nholi Akpedeye, Past President of APWEN and Managing Director at Contego Servo Limited, delivered the keynote presentation emphasizing the benefits of work-life integration for enhanced productivity through flexible scheduling. Tahir Salahuddeen, Vice Council Chairman of the SPE Nigeria Council gave the closing remarks, followed by a ceremony to honor and recognize the 10-year impact of the SPE Women Leadership Program. Mrs. Oghogho Effiom, Regional Director of SPE Africa Region, expressed gratitude to all Chairpersons, Speakers, and Moderators who contributed to the program over the years.

PHOTO GALLERY





Day Five, 2nd August 2023 marked the culmination of the Nigeria Annual International Conference and Exhibition (NAICE) 2023 with the prestigious SPE Annual Banquet and Awards. Held at the Lantana & Orchid hall, Eko Hotel & Suites from 18:00 hrs to 22:00 hrs, the event commenced with a warm welcome to guests and the acknowledgement of BOT members, VIPs, and gold sponsors. Principal Sponsors took the stage to enlighten guests about their business offerings and the significant role of SPE within their companies. Ghanaian organizations including Ghana National Gas Company (GNGC), MODEC Production Services JV Ltd, and Amaja Oilfields Ghana Ltd were honored as Regional Awardees for their remarkable financial and technical support for the SPE Ghana Section. Dr. Riverson Oppong, a prominent figure in the SPE Ghana Section, received recognition as a Regional Management Awardee for his exceptional leadership within a Ghanaian organization, showcasing his global impact and lasting legacy in the energy industry and SPE. The festivities continued with the Section of Port Harcourt being awarded as the best Section in Nigeria, eliciting much excitement and celebration among attendees.

The last batch of the Ghanaian team after a memorable and insightful experience departed from Murtala Mohammed International Airport, Lagos at 1340hrs and arrived safely in Ghana at 1340hrs on 4th August 2023. In conclusion, the conference provided valuable insights and opportunities for collaboration in the oil and gas industry. Looking ahead, it is anticipated that Ghanaian companies will play a more active role in future conferences by showcasing their products and expertise. Dr. Riverson Oppong's leadership has been instrumental in the growth of the SPE Ghana section, reflecting his commitment to advancing the industry.

NA ICE '23



LOCAL CONTENT 20 CONFERENCE 23

The SPE Ghana had members as speakers for the conference. We had Dr. Yen Adams Sokama-Neuyam, a Senior Lecturer and Head of the Department of Petroleum Engineering at Kwame Nkrumah University of Science and Technology (KNUST) and Dr Yaw Akyampon Boakye-Ansah, a Lecturer at the University of Energy and Natural Resources as speakers and Nidra Araba Yebuah involved moderating major discussions.



Nidra Araba Yebuah moderated a panel discussion on the topic Unlocking the Next Phase of Local Content through Robust Oil and Gas Research and Development.

The SPE Ghana Section held a diversity and youth forum during the Petroleum Commission Local Content conference on day 3; Thursday, 23rd November 2023. This forum had Victor Sunu-Attah, General Manager GNPC as the speaker who gave a presentation on the topic "Nurturing Tomorrow's Leaders in the Upstream Petroleum Industry: The Role of Young Professionals". His presentation covered the global challenge of the oil and gas industry, of an aging population of experienced workers.

Coinciding with this is the growing demand for young professionals to assume responsibilities and management duties at a rapid pace. He stated that while the universities are making efforts to close the gap by churning out graduates for the industry, it is imperative for the industry to develop and mentor these young professionals to augment the workforce demand in the industry.

The session continued with a panel discussion with Phedrias Nyamalar; Halliburton Ghana Limited, Fiifi Nyarkoh Otoo; SPE Ghana Young professionals Chair (moderator), Michael Fiadoyor; Tullow Ghana, Mrs Sheena Owusu-Ansah SPE Ghana Section Chair. The session focused on the pivotal role played by young professionals, and strategies to groom the next generation of leaders to steer the upstream petroleum industry toward a sustainable development.



LOCAL CONTENT CONFERENCE

Victor Sunu-Attah identified areas young professionals must develop competencies to take up roles. To prevent the challenge of losing the young professionals to the companies outside Ghana, he reiterated the need for training recognizing contributions made by the young professionals and remunerating them as well as changing strategies to help keep them. He also stated that remuneration however is a challenge due to the economy.

Mrs Sheena Owusu Ansah in addressing what can be done to develop more ladies and keep them in the industry highlighted the need for mentorship within the various companies. She also stated the need for having a clearly defined career path for the ladies to help them identify competencies they need at each level of their career progression as well as on job trainings to they can take up leadership positions.



Phedrias Nyamakor also outlined specific technical and soft skills young professionals must focus on. With regards to the technical skills, she stated that it will depend on and their next level. She also highlighted key soft skills such as communication, problem solving and emotional intelligence needed to excel in the place of work.

Michael Fiadoyor also spoke about strategies organizations must put in place to empower young professionals with regards to ability, competence and confidence. He stressed on the need for companies to have clear plans or structures for individuals on their career growth and also make the effort to recognize their growth.

On how to address the issue of diversity and inclusion in the career development of young professionals, she stated that we must ensure they feel supported and encouraged to do more as a way of showing we believe in their capabilities. Victor also made a contribution on how young professionals can contribute to policy making process in the upstream industry. He stated that communities like SPE can play a major role in influencing the young professionals. In the education sector, he stated that the Student Representative Council (SRC) can also influence policies. Victor also mentioned the need to create opportunities for the young professionals to try new things.

The session came to a successful end and questions and answers and members went out together to take a group photo.

2023
**SPE GHANA
AWARDS**

The logo for the 2023 SPE Ghana Awards features a white trophy with a yellow star on top. The trophy is stylized with a curved, upward-pointing shape. The text '2023' is positioned above the main title 'SPE GHANA AWARDS', which is written in a bold, white, sans-serif font.

Young Professional Outstanding Service Award



Ama O. Sarpong



Yaw Frempong Koduah-Sarpong



Philip Kwasi Banini



Nicholas Abakah Eshun



Abena Owusua Yeboah

Professional Support



Ato Aidoo



Henry Adam-Malm



Celestina Kissi



Derrick Klutsey



Samuel Stephen Nii Laryea Adjei

Longest Serving Section officers



Ato Debrah



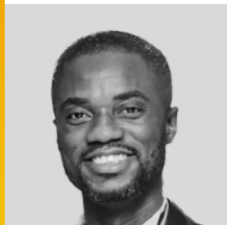
James Allotey-Okai



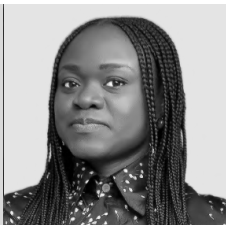
Fifi Nyarkoh Otoo



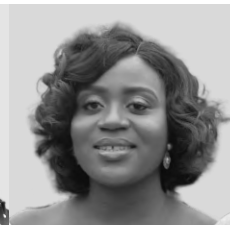
Sheena Owusu-Ansah



Riverson Oppong Ph.D.



Celestina Kissi



Victoria Kyeremeh



Hellen Kpegar

Outstanding Petroleum Engineering Faculty



Prof. Richard Amorin

Longest Active Section Member



James Ackah Beyelah

Outstanding Dedication to STEM, Diversity and Inclusion Promotion



Sheena Owusu-Ansah

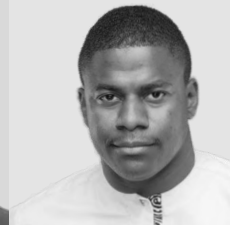
Technical awards



Ato Debrah
Drilling Engineering



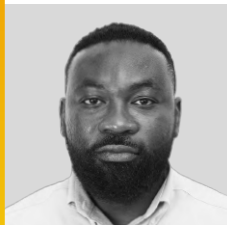
John Swatson
Projects, Facilities and Construction



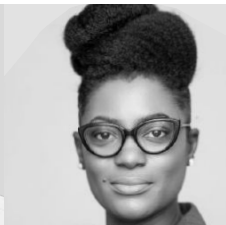
Cyril Brian Avevor
Reservoir Description and Dynamics



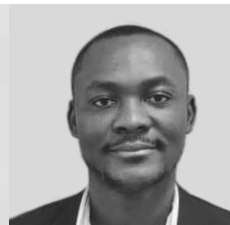
James Allotey-Okai
Completions Optimization and Technology



Eric Twum Osei
Health, Safety, and Environment



Nidra Araba Yebuah
Management



Fifi Nyarkoh Otoo
Production and Operations



Ama O. Sarpong
Formation Evaluation



STUDENT CHAPTERS

Explore to see the transformative growth SPE is experiencing among student members in Ghana



**TAKORADI
TECHNICAL
INSTITUTE, TTU**

Mass Membership and Awareness Campaign, Training for Energy 4me, Python programming, Field Trips, SHS Outreach.



**UNIVERSITY OF
MINES
& TECHNOLOGY,
UMaT**

SPE Awareness Campaign, Energy4me Outreach, Webinars, Anniversary Launch, Kick-off Event, Career Guidance, National Recognition, Petrobowl Champions



**KUMASI
TECHNICAL
UNIVERSITY, KsTU**

Chapter Kick-off Event, Member Registration, Career Guidance Session, Webinar on Benefits of Joining SPE,



**UNIVERSITY OF
GHANA, UG**

Ambassador Lecture, Clean-up Exercise, Massive Recruitment, Introductory Lecture,



**REGIONAL
MARITIME
UNIVERSITY, RMU**

Keep Fit, Awareness Event,



**ALL NATIONS
UNIVERSITY, ANU**

A Summary Report from the Chapter



**KWAME NKURMAH
UNIV. OF SCIENCE
& TECH., KNUST**

Freshmen Orientation, Personal Branding as Engineers, KsTU Chapter Inauguration, Collaboration with KsTU, Meet and Greet with National Executives,



**UNIVERSITY OF ENERGY
AND NATURAL
RESOURCES, UENR**

Breast Cancer Awareness, SPE Orientation, SPE Benefits, Guess Lecture,

**A virtual
Townhall Session**
... for all student chapters and
faculty advisors with the **2023/24**
SPE Ghana Section Chair

Thurs: 2nd Nov 1:00 pm

Join on zoom

Sheena Owusu-Ansah
SPE Ghana Section Chair

Industrial Field Trips to WEC, Orsam Energies, SLB and Halliburton



Industrial field trips, as part of TTU's academic curriculum aims to bridge the gap between academia and the industry. This enhances students understanding through in-person interaction with professionals on site and the witnessing of various processes. SPE-TTU student chapter provided valuable exposure to its members through field trips to prominent industry players, including Wayoe Engineering and Construction Ltd. (WEC), Orsam Energies, SLB Ghana and Halliburton Ghana fostering a practical understanding of the oil and gas sector. The trips happened on 1st, 8th and 13th March, 2024. A sincere appreciation to the companies who opened their doors and shared their industry expertise with the students. With a grateful heart we say a very big thank you to all the SPE Ghana section executives especially Mrs. Sheena Owusu Ansah, Mr. Derrick Klutsey, Mr. Obed Tanlon, Mr. Fiifi Otoo Nyarko, and the Faculty Advisor Mr. Justice J Owusu for their support in making this possible.



Mass Registration, Membership Renewal and Awareness Campaign

Being a new chapter, SPE-TTU Executives deemed it necessary to embark on a wonderful week journey of mass registration and renewal of membership from 22nd to 30th January, 2024.

[Continued on next page](#)



During this period, SPE-TTU chapter successfully conducted a membership drive, facilitating mass registration and renewals. An awareness campaign was also executed to inform the students of the significance of joining SPE. The current student membership stands at 235 registered members.



Training of SPE Members on Energy4me

For SPE TTU chapter to continue to contribute meaningfully to the communities through senior high school engagement, the chapter members were equipped with knowledge and skills through specialized training on Energy4me programs, aligning with SPE's commitment to education and outreach on 2nd February, 2024.



Training on Python Programming



Software skills have become a very needful requirement for most individuals in line with their professions. After careful consideration, the executive committee of the SPE-TTU Student Chapter realized the need for a software training session. On February 16, the chapter organized a comprehensive online training session on the introduction to Python Programming, enhancing members' technical knowledge and understanding in line with the evolving demands of the petroleum industry. Due to academic activities, the chapter has plans to have a complete practical training session in the upcoming months.







Energy4me Outreach at Archbishop Potter Girls School



Contributing to community engagement, the SPE-TTU student's chapter, on 27th February participated in an outreach program organized by the management of the Takoradi Technical University at Archbishop Potter Girls School for all departments and associations, promoting awareness and education on energy-related topics and the oil and gas industry. An Enhanced Oil Recovery (EOR) practical experiment was conducted by the Chapter President and Vice, Auntie Ekuba Mensah and Aaron A. N. Erskine Yamoah respectively, for the students who participated in the exhibition to appreciate what goes on in the industry.

 Due to preparations for the 13th African games to be hosted in Ghana by the University of Ghana, the 2023/2024 Academic year saw a cut in the number of weeks designated for teaching and learning which caused a number of problems in scheduling programs and events for the chapter. However the chapter was still able to engage the members over the said period through various activities.


Ambassador Lecture Program

 On the 31st of October 2023, the chapter hosted an ambassador lecture program with SPE Ghana section. This lecture, given by Mr Fifi Otoo, was aimed at disseminating vital industry information, answering students' enquiries, and sharing personal experiences about the industry.

Impact: The program helped to introduce new members to SPE and also created a networking avenue through which students in the chapter were able to interact with young professionals.



Clean-Up Exercise

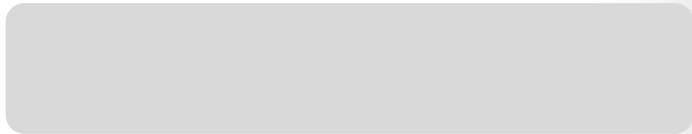
 On the 18th of November 2023, the chapter collaborated with UGESSA to conduct a clean-up of the Earth Science Department. This event was aimed at building friendships amongst members of the chapter, as well as create a conducive environment in which members can thrive. The university welcomed new members in January. The chapter conducted a mass recruitment event from the 5th to the 22nd of January 2024.

Continued on next page





On the 23rd of January 2024, the chapter organised an introductory lecture for its new members, with a special focus on those in level 100, to introduce them to the chapter. The event helped to usher the new members into the chapter and also created an avenue through which old members could meet and mentor younger students in their academic journey.



The recruitment event was aimed at sharing knowledge about SPE to other departments of the school since it is concentrated at the Earth Science department, as well as pique the interest of Level 100's to join the chapter. Student executives of the chapter met with presidents of the chemistry and the physics departments. Again, to aid level 100 students make smooth enquires about SPE, booth was set up.



Introductory Lecture



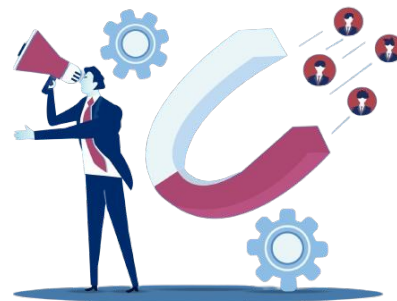
SPE RMU Keep Fit



On 30th September 2023 the Society of Petroleum Engineers (SPE) Regional Maritime University chapter undertook a keep fit exercise to strengthen the mental and physical health of members. This exercise was to help refresh and strengthen the student since our mental and body condition plays a major role in our performances. The event recorded positive feedback from participants with some requesting more of such in the future. The students were excited, hoping that this event would be done every month. Executives of the chapter bore the entire cost of the event.



SPE Awareness Event



On 13th October 2023, the chapter engaged in SPE Awareness where visitations were made to various departments to educate them about SPE, including the benefits of being a member of the society. This talk exposed the students to the oil and gas industry and areas where their areas of study are applicable. The activity helped a lot of students to understand that they could work in several areas beyond the maritime industry.



SPE Awareness Campaign Week

The SPE UMaT Awareness Campaign Week aimed at publicizing SPE and its benefits to the entire university community spanned from the 31st of July 2023 to the 4th of August, 2023. The week was fused with a series of activities in order to achieve the aims of the event. The week began with a virtual launch to officially set rolling all plans. As part of the launch, a talk dubbed "Unleash Potential, Ignite Your Impact with SPE" was held to make known valuable resources available in SPE and also spike up activeness among the chapter members.



A webinar on "applying for the Outstanding Student Award, a student support opportunity" was presented by the president and vice president of the chapter on the 1st of August, 2023. On the third day, a class-to-class awareness campaign where members were assigned to various classes to educate students on the benefits of being in SPE was undertaken.



Members were educated via a webinar interaction on how to ace the SPE student paper contest on the 3rd of August, 2023. The session was facilitated by past participants of the SPE Africa Students Paper Contest. The climax event, "The Redefined African" seminar, facilitated by the faculty advisor, Assoc. Prof. Richard Amarin and the Career Guidance and Outreach Chair, Mr. Derrick Klutsey, brought members together in their wonderful African prints, connecting them to their identity as Africans and empowering them to unleash their potentials. At the end of the week, members were empowered, chapter membership, as well as renewals increased; and the university became aware of SPE.





Energy4me Outreach

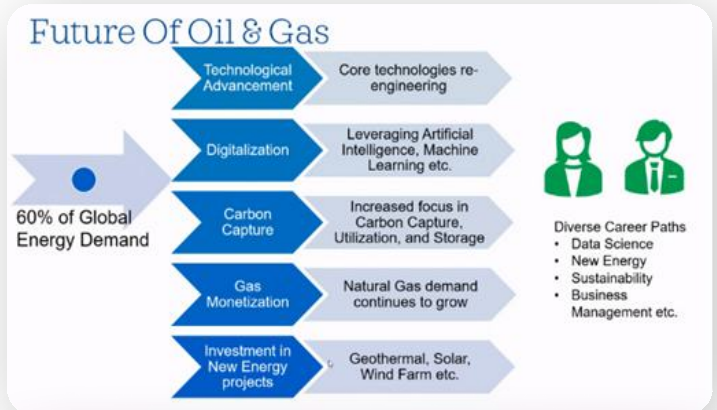
The Energy4me school outreach at the Fiaseman Senior High School, Tarkwa, took place on the 24th of April, 2023. The outreach sought to excite students about Science, Technology, Engineering and Mathematics (STEM) while introducing them to the scientific concepts within exploration and production in the oil and gas industry. With over 200 students present, the energy4me ambassadors efficiently achieved their aim of the outreach, exciting a lot of young minds especially females about STEM.



Technical Webinar

In this energy transitioning age, the webinar titled "Energy Transition and The Future of Oil and Gas" was aimed at demystifying the myth about oil and gas going extinct, as well as how to be equipped as

engineers. The webinar was facilitated by Mrs. Nidra Araba Yebuah, the digital and integration account manager for Ghana and Equatorial Guinea at SLB, who expounded on the future of oil and gas highlighting on topics such as technical advancement, digitalization, carbon capture, gas monetization and investment in new energy projects. She added that engineers ought to be diverse and consider career paths such as data science, new energy, sustainability, business management amongst others. The webinar equipped members with knowledge concerning the future of oil and gas as well as the role they play in it. The webinar took place on the 3rd of November, 2023 via Google Meet.





10th Anniversary Launch.



The launch, which took place on the 8th of March 2024, was set to head-start the 10th anniversary celebrations of the chapter. The event initiated the celebration of a significant milestone for the chapter. The chapter was honoured to be graced by the Section Chair, Mrs. Sheena Owusu-Ansah and the Young Professionals Chair, Mr. Fiifi Otoo Nyarkoh as Chairperson and Guest Speaker respectively for the event. Members were inspired to actively participate in SPE as well as to take up leadership roles. The unveiling of the theme was accompanied by cake cutting amidst celebrations.



Brief Report: **Regional Recognition**

The chapter was selected to receive regional recognition in 2023. The Regional Student Chapter Recognition Program aims to spotlight those doing excellent work within their region but not achieving a global Presidential or Excellence Award. The program recognizes those that are innovative, have a particularly noteworthy program, or are making great progress. The Chapter's operational efforts as well as its goal orientation were found commendable, hence, the recognition



2023 Petrobowl Ghana Champions 🎉



At the Africa Annual Student's Congress 2023, held at the university of Ghana, University of Mines and Technology team led by Gabriel Yaw Badu, emerged the winners for the Petrobowl qualifiers. This win enabled them to represent Ghana at the ATCE in Houston, Texas



Chapter Kick-off Event

The kick-off event held on January 23rd, 2024, marked the official establishment of SPE-KsTU and served as an introduction to the chapter's mission, goals, and upcoming activities. It included welcome remarks, introductions, election of chapter leaders, and an overview of SPE's role in supporting students in the petroleum engineering field. The guest speakers from SPE_KNUST collaboratively shared their experience and expertise at the event.

Impact on Attendees:

The event generated excitement and enthusiasm among attendees, fostering a sense of community and belonging within the SPE-KsTU chapter. It provided an opportunity for members to connect with one another, learn about the chapter's objectives, and become actively engaged in its activities. It also served the elected executives an opportunity to build and develop their leadership and soft skills.



Member Registration

General Overview

The member registration period, January 24th - February 5th, 2024, allowed students to officially join SPE-KsTU and become part of the chapter's membership base. Both online and on-campus registration options were available, streamlining the process for interested individuals to sign up and get involved.

Impact on Attendees:

The registration drive saw a significant turnout of new members eager to join SPE_KsTU and participate in its activities. It facilitated the growth of the chapter's membership base, strengthening its presence within the university community and laying the groundwork for future collaborations and initiatives.



Chapter Kick-off Event

The career guidance session held on March 1st, 2024 provided attendees with valuable insights and advice on career development in the oil and gas industry. Industry professionals and experienced speakers shared their expertise, discussing career pathways, job opportunities, and strategies for success in the industry.

Impact on Attendees:

The session proved to be highly informative and beneficial for attendees, offering practical guidance and actionable tips for advancing their careers in the oil and gas industry. It empowered participants with knowledge and resources to make informed decisions about their professional development and future aspirations.



Webinar: Benefits of joining SPE



WEBINAR

- The benefits of joining SPE.
- The role of the spe student and chapter in Career Progression
- Scholarships Opportunities
- Mentorship program
- Q&A session

Guest Speakers



Philip Kwasi Banini
Student Liaison
SPE Ghana Section



Vincent N. B. Amponsah
Dept. Communications Chair
SPE Ghana Section



March 7th



6:00PM to
8:00PM GMT



ID: 821 5266 4270
Passcode: spegh

SPE-KsTU

General Overview

The webinar focused on educating attendees about the numerous benefits of joining SPE, including networking opportunities, scholarships, mentorship programs, and career development resources. Speakers highlighted the advantages of membership and provided insights into how SPE can support students in their academic and professional journeys. The webinar was held on March 7th, 2024.

Impact on Attendees:

The webinar expanded attendees' understanding of the value proposition offered by SPE membership, inspiring them to become active participants in the organization. It motivated attendees to take advantage of SPE's resources and opportunities, fostering a sense of belonging and engagement within the SPE_KsTU chapter.



A Summary Report from the Chapter

SPE ANU Chapter held a number of events and a memorable one among them is the 'Chapter Internal Quiz'.

This event was held on the 10th of March, 2023 at the university auditorium. This event was to give new members an idea of what SPE is and how SPE gatherings are. It was also aimed at preparing contestants for the upcoming Petrobowl and student paper contest.

Another event held was the fun games for members to showcase their various talents in both indoor and outdoor games.

A laboratory tour was held in the September 2023, at the beginning of new semester. It was organized to teach the new members in the chapter some of the major instruments, tools, devices and equipment and their functions.

An SPE outreach aimed at recruiting new members and educating them on the overview of the oil and gas industry was held. The chapter extends its gratitude to all personnel who were involved in making the event a fruitful one.

In all, these events have preached more about SPE and have instilled more knowledge about the oil and gas industry in members.

— ”



SPE is a very educative society to be a member of, therefore, it is very necessary to participate fully in its activities where knowledge is exchanged, being innovative is crucial and more importantly gaining professional competence in the exploration and production of oil and gas in a safe manner.

SPE students' orientation for freshmen

To help foster undiluted participation in SPE activities in the chapter, an orientation session was organized in collaboration with the college executives to create the awareness of SPE and increase our membership by recruiting interested students.



Seminar on **Personal Branding** as Engineers.

Personal branding is a powerful tool for student engineers to differentiate themselves, attract opportunities, and advance their careers. By defining their unique value proposition, building a professional online presence, showcasing their projects and achievements, actively networking, demonstrating thought leadership, and seeking feedback, student engineers can establish a strong personal brand that resonates with employers and industry professionals. Due to this, the chapter took it upon itself to organize a webinar for student members to enhance their persona. This was hosted and moderated by our chapter vice president, Miss Lawrencia Ohene.



SPE - KNUST in collaboration with **CHEESA**

PERSONAL BRANDING AS A STUDENT ENGINEER
Optimizing your linkedin profile

SPEAKERS

- MR. SAMUEL ANKYE**
SPE PROCESS ENGINEER, PALMAR SPRING LTD.
PERSONAL BRANDING COACH & EXPERT
- MISS CECILIA ACHEAMPONG**
DATA ANALYST, ATTITUDE GLOBAL
LINKEDIN TOP VOICE
- LAWRENCIA OHENE**
MODERATOR

6 TO 7 PM
FRIDAY, 8 MARCH 2024

Via Google meet! [HTTPS://MEET.GOOGLE.COM/JCJ-BTNA-AXR](https://meet.google.com/jcj-bttna-axr)

In conclusion, seminars are extremely significant in the lives of students. They are extremely beneficial to students since they enable them to evaluate, stay up to date on current events, comprehend concepts, and build their network. The seminars held so far have helped students gain more knowledge about SPE and the role it plays in contributing to the oil and gas industry.

SOCIETY OF PETROLEUM ENGINEERS
KNUST CHAPTER

SPE 4 ALL
AN ALL INCLUSIVE STUDENT BODY

CIVIL ENGINEERS
Mechanical Engineers
Geomatic Engineers
Computer Engineers
Geological Engineers
Electrical Engineers
Chemical Engineers
Financial Analyst
Accountants

Inauguration of the KsTU SPE chapter.

The inauguration of a new student chapter is a significant milestone for any educational institution. It marks the beginning of a platform where students can engage, learn, and collaborate in their chosen field of interest. As an already established chapter, we had the privilege and outmost honour to join the leadership of SPE Ghana to inaugurate the KsTU chapter.



The inauguration of the KsTU chapter marks the beginning of an exciting journey towards academic and professional excellence. By providing a platform for collaboration, learning, and networking, the chapter aims to empower students and contribute to their holistic development. In attendance was the KNUST president, Master Abdul Razak Suleman, the membership chair, Miss. Victoria Naa Momo Sampson et al.





Collaborative meeting with SPE KsTU

Collaborative meetings play a crucial role in fostering teamwork, sharing ideas, and making collective decisions within organizations. As neighbouring student chapters, we organized a meet up section where we shared ideas and plans for the future for the betterment of the section and students at large.



Meet and Greet Seminar with National Executives

Embarking on a professional journey can be both exciting and daunting. It requires a blend of skills, perseverance, and adaptability to navigate through the challenges and opportunities that arise. This report outlines key strategies to help individuals navigate their professional journey effectively.

Due to this, we had the privilege to meet with the national executives in the person of Mrs. Sheena Owusu-Ansah (Section Chairperson) and Mr. Derick Klutse (Head of the career guidance and outreach committee). It was a moment worth having and time worth dedicating.



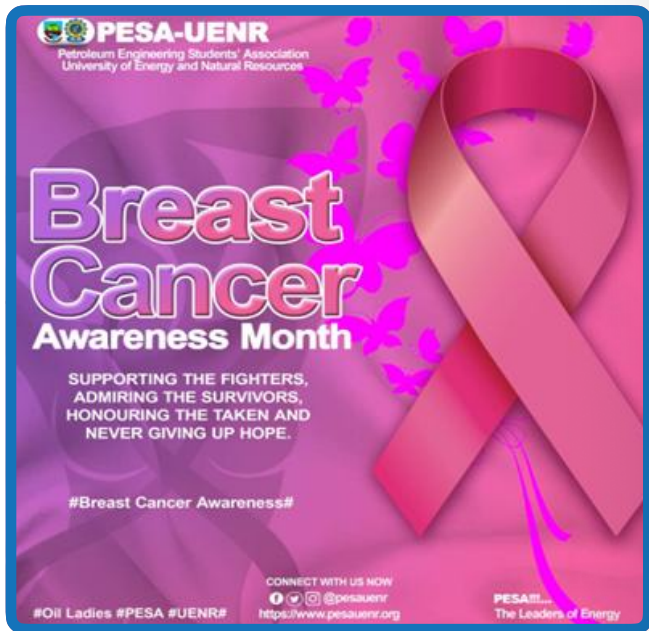
KNUST & KSTU
SPE STUDENT CHAPTERS
Present

NAVIGATING THE TWIST AND TURNS
Of Professional Life

 Sheena Owusu-Ansah Section Chair SPE Ghana	 Derrick Edem Klutsey Career Guidance and Outreach Chair SPE Ghana	 Terry Cobson Drilling Services Sales Manager, Central and Southern Africa Baker Hughes
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Friday 26th April 2024 • 4PM •
Venue: Reservoir Simulation Lab PB, KNUST

Breast Cancer Awareness Month



Held on 15th October, the objective of the event was to raise awareness on breast cancer and promote early detection. The awareness program was dubbed "Arise, Support, Empower; Together we thrive". The chapter had a virtual engagement session with a health tutor who took participants through the stages of development, causes and prevention of the breast cancer and also stressed on the collective efforts for all to come together to fight and protect against breast cancer.



Local SPE Orientation for Freshmen



The objective of this event was to welcome and introduce freshmen to the Society of Petroleum Engineers (SPE), UENR chapter.

Welcoming and orientation of freshmen focused on some key areas in SPE which include; the benefits of joining SPE as students, events and activities provided by SPE, how to join SPE as a new member, membership registration on the various divisions in SPE, and renewal of membership status and communities within the SPE.

Present at the orientation were SPE UENR executive members, the faculty Advisor, the Department head, and members of staff.





Benefits of Joining SPE

The virtual meeting was held on the 18th February 2024, to dive into the various benefits one can get from being a member of SPE. This was done to help member develop a special interest and zeal for SPE and also help improve our students' participations in SPE events. The chapter collaborated with some executive members of SPE Ghana to have a webinar with member of the chapter on the benefits of being a member of SPE as a students. These includes scholarships, technical workshops, SPE mentorship.

Society of Petroleum Engineers
University of Energy and Natural Resources
SPE-UENR CHAPTER

p r e s e n t s

Benefits Of Joining SPE

Guest Speakers



Philip Kwasi Banini
Student Liaison
SPE Ghana Section



Vincent N.B Amponsah
Dep. Communication Chair
SPE Ghana Section

18th February, 2024
6:00pm - 7:30pm
Google Meet

PESA The Leaders of Energy
Visit our website <https://www.pesauenr.org/>
Connect with us now!
@pesauenr

Guest Lecture:

Downstream Petroleum Operations And Market Oversight

The chapter had a day's guest lecture in collaboration with the National Petroleum Authority (NPA) and the Environmental Protection Agency (EPA).

The session was graced by members of staff from the above companies where participants had an informative knowledge sharing on the topic above. The industries delved into their activities and how they impact the various sectors of the oil and gas through their regulation and monitoring mandates.



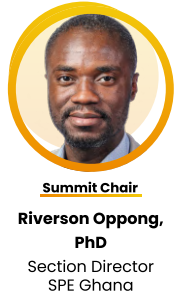
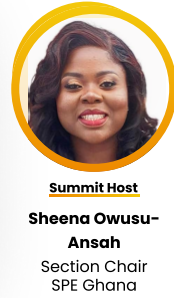
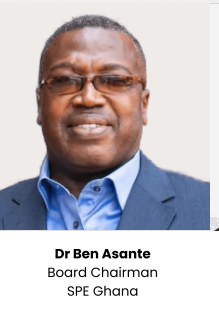
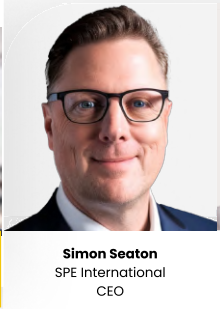
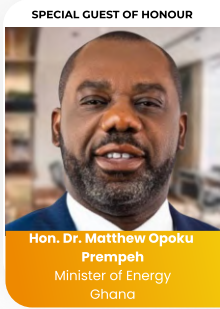


Ghana's Biennial International Summit And Exhibition

2024

Embracing Innovation: Redefining the Future of the Oil and Gas Industry in Africa

Alisa Hotel, North Ridge
20th May, 2024
9:00AM GMT



NJ Ayuk, **Julia Oridossava**, **Theo Ahiwrengh**, **Eng. Elizabeth Rogo**, **Victor Sumu-Atiah**, **Benjamin Aweya**

Tony Tomasiari (Keynote), **Mido Aniba Yousof (Moderator)**, **Dr. James Oshoma Anulrah**, **Chijike Ibeh**, **Temitope Solanke**, **Michael Abu**

Anthony Ogunkoya
Oil Veterans and former SPE Africa Regional Director

Kwaku Boateng, **Dr. Victor Ekepenyong**, **Etta Agbor**, **Akosua Gyan Bandoh**, **Samuel Stephen NE Adjei Laryea**, **Sheena Owusu-Ansah (Moderator)**

SPE AFRICA YOUNG PROFESSIONALS' WORKSHOP 2024
21st May 2024 | Alisa Hotel, North Ridge | 1:00pm GMT

KEYNOTE SPEAKER: **John Aboagye**

SPECIAL GUEST SPEAKERS: **Quame Tahir**, **Phaedra Hyammar**, **Ashley Bode**, **Priscilla Enwere**, **Ing. Gilbert Anene**

PARTICIPATING SECTIONS: Ghana, Angola, Warri, Port Harcourt, Lagos, Windhoek, Dar Es Salaam, Mozambique, Windhoek, Southern Africa

SPE AFRICA SECTION OFFICERS' WORKSHOP 2024
SUCCESSION PLANNING
Talent Planning: Developing a robust pipeline of qualified individuals for key roles.

KEYNOTE SPEAKER: **Simon Seaton**
Guest Speaker: **Salahuddeen M. Tahir**

May 21st, 2024 | Alisa Hotel, North Ridge, Accra, Ghana | 0900 Hrs

SPE AFRICA YOUNG PROFESSIONALS' DEBATE 2024
21.05.24
SAVE THE DATE

PARTICIPATING SECTIONS: Ghana, Angola, Uganda, Gabon, Warri Nigeria, Lagos, Port Harcourt, Benin City Nigeria, Abuja, Dar Es Salaam - Tanzania, Mozambique - Mozambique, Nairobi - Kenya, Congo, Douala - Cameroon, Ndjamena - Chad, Southern Africa, Windhoek - Namibia

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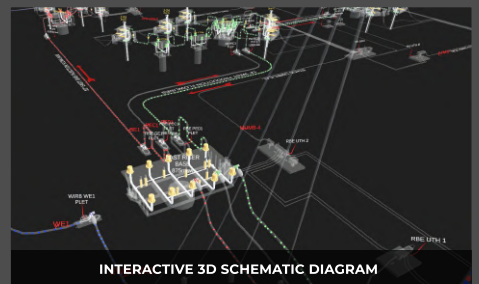
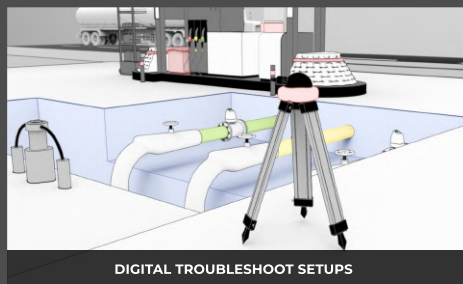
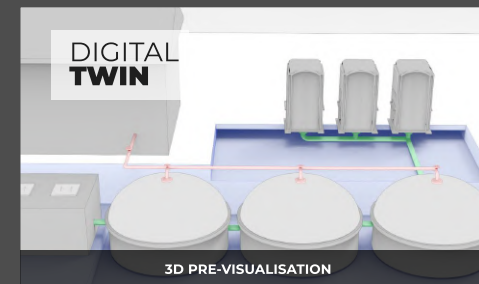
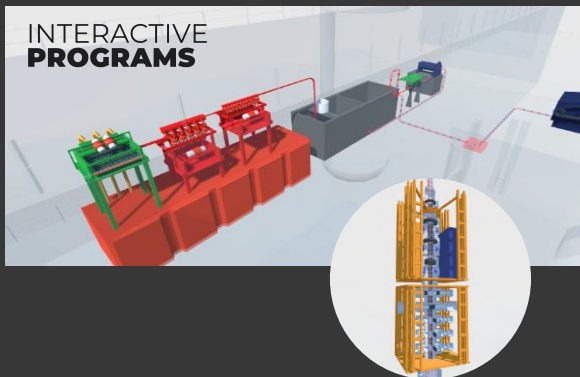
Relu Interactives is the leading provider of interactive software solutions in Africa. With our expertise in **Digital Twin Design, Interactive Software, 3D Visualisations**, and related services, we have become the **go-to partner** for engineering companies looking to enhance their operations.

Driven by a customer-centric approach, we work closely with clients to create **customised software solutions** that **improve efficiency, reduce costs, and enhance productivity and safety**.

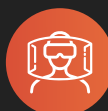
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Our victory at the **2023 NEP Presidential Pitch** is a government-verified testament to the impact and legitimacy of our innovative solutions in advancing technology in Africa.



TECHNOLOGIES WE USE



3D

VR

MR

AI

GAMING STARTUP OF 2023
GHANA INNOVATION AND STARTUP AWARDS



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