



PREFACE

COVID-19 which was first heard in China was finally reported in Nigeria and the surge particularly in Lagos and FCT Abuja resulted in total lockdown of activities and ban of gathering of any form by the Federal Government. However, the Chapter was undaunted as new technologies were explored to carry out its activities virtually courtesy of our able and dynamic Engr. Mamoud Bello FNSCE. Consequently, the Chapter was still able to hold its three General meetings for this quarter virtually in which powerful Technical Papers were presented by Zoom technology application. The papers titled "Project Cycle and the World Bank Environmental & Social Framework", "Principles and Methods in designing a 'violator'" and "An assessment of Remediation Potential of vegetated constructed wetland in the Bio-treatment of concrete washout

wastewater" were presented by Engr. Mamoud Bello, Dr. Steve Marnah and Engr. Bamba in April, May and June 2020 respectively. Participation of members was very encouraging and we want to Engr. Mamoud Bello for his initiative and support of the technology.

Beside holding meetings, the Chapter carried out virtual Public lecture and visited two locations to donate palliatives towards combating the Coronavirus and in memory of Engr. Suleiman Achimgu, who was the first victim of the pandemic in Nigeria. What that was an opportunity for the Chapter to join in campaign of bringing awareness to the entire society, the reality of COVID-19. We exhort our members and their relatives to abide by the instructions of the government and keep safe.

CHAPTER DONATES PALLIATIVES TO IDP CAMP

The NSCE, FCT and the Nasarawa Chapter has joined the fight against COVID-19 to honour the memory of Engineer Suleiman Achimgu, the first victim of Coronavirus pandemic in Nigeria. Achimgu, the former Managing Director of the Pipeline and Product Marketing Company, PPMC, a subsidiary of the Nigerian National Petroleum Corporation, NNPC, died shortly after he visited the United Kingdom and was diagnosed of coronavirus.

Speaking at the new Internally Displaced Persons (IDP) camp in Kuchingoro in Abuja on the 22nd April 2020, Dr. Boniface Wada, who is the Chairman of the COVID-19 Committee FCT/Nasarawa Chapter, said the donation of items which include foodstuff, sanitizers, dental detergent and clothing was aimed at alleviating the suffering of Nigerians during the period

of the lockdown. He said that donating to this IDP camp was to identify with the needy and assist the government in combating the spread of the pandemic and therefore, requested that the items be used and shared fairly. The Chapter Chairman, Engr. Onyekachi Onugu and Engr. Ben Akakaar also appealed to displaced persons to ensure coronavirus was not spread among them.

Receiving the donated items, the Chairman of the IDP camp, Mr. Peterlon Emmanuel, thanked the Chapter for remembering the needy in their midst and expressed gratitude for the donation. He called on other organizations in the country to reach out to the needy during this period of lockdown, saying that many families are not finding it easy to cope with the present situation. He explained that it was the second time an



Engr. Akakaar displayed Achimgu's poster



Setting up for IDP's camp from Minister's office

organization was coming to donate foodstuffs and other essentials. According to him, before the Chapter's visit, the challenge of feeding has been enormous but with the visit, he was happy that his members would sleep on a full stomach. The Woman Leader of the IDP camp, Madam Ladi Mathias, also thanked the Chapter for coming to the

aid of the internally displaced persons and expressed joy at the generous gesture. The visit which was well covered by broadcasting and print media such as Radio Nigeria, AIT, Nations Newspaper, Leadership and New Nigeria received outstanding commendation by NSICHE Council in its meeting on the 25th April 2020.



At IDP's camp with items for donation



Dr. Wada displayed clothing items

PUBLIC LECTURE TO COMMEMORATE WORLD ENVIRONMENT DAY 2020

The Nigerian Society of Chemical Engineers (NSCHE) FCT-Nasarawa Chapter joined the rest of the world to celebrate the World Environment Day (WED) on the 5th June 2020 by organizing a virtual Public Lecture titled "Biodiversity and Resilience of Ecosystem Functions: The Role of Engineering" in response to 2020 WED Theme which calls for urgent action to protect biodiversity.

Life on earth would not be possible without nature's services. For example, it provides us with oxygen, purifies the water we drink, fertilizes the soil and produces the variety of foods we require to stay healthy and resist disease. It offers substances for developing medicines and provides foundation of most industries and livelihoods while helping to mitigate the impact of climate change by storing carbon and regulating local rainfall. However, with our increasing demands, humans have pushed nature beyond its limit thereby contributing to biodiversity loss. In the last 50 years, the human population has doubled, the global economy has almost quadrupled and global trade has increased by about ten times. It would take 1.5 Earths to meet the

demands that humans make of nature each year. The emergence of COVID-19 has underscored the fact that when we destroy biodiversity, we destroy the system that supports human life. By upsetting the delicate balance of nature, we have created ideal conditions for pathogens - including coronaviruses - to spread.

Engineering harnesses natural resources to make human lives safe and convenient. Living as we know it today would not have been possible without engineering. Engineering is playing important roles in all aspects of human life - infrastructure, energy, medicine, communication, agriculture, etc. Hence, engineering has one of the biggest roles in biodiversity protection as we seek to obtain equilibrium living in harmony with nature.

Speaking during the lecture, the Guest Speaker, Dr. Ismaia Vincent Akpu, Associate Professor, Department of Animal and Environmental Biology, University of Port Harcourt explained biodiversity functions for humanity, the threat to biodiversity and closing the gap between engineering and ecology. According to her, biodiversity stimulates technological innovation and provides framework for

sustainable development for engineers. Major threats to biodiversity include habitat change, invasive alien species, over-exploitation of natural resources, pollution, climate change, global warming and underlying socio-cultural conditions among others. These threats from human activities are putting strain on the natural functions of biodiversity and its ability to sustain future generations. If species are not able to adapt to intensified threats or disturbances, the maintenance of biodiversity and sustainable provision of ecosystem services to humanity will decline and cease to occur in future.

Taking critical analysis of the roles of engineering in all these, the forum agreed that there is a need to close gap between engineering and ecology. Environmental impact of any project must be taken into serious consideration and constantly reviewed during conception and execution of the project. To this end, there must be synergy among professional disciplines and review of academic curriculum to incorporate more courses and make researchers focused on practical solutions to human problems. Furthermore, there should be

enforcement of extant laws both internally and locally.

The Public Lecture which was chaired by Engr. Oluochi A. Anyudu, FNSChE, FNSA, FASEng (National President of NSChE) witnessed about 150 participants who joined from their homes or offices. Beside the Guest speaker, Mr. Abba Saleman, FNES (Director, Environmental Assessment Department, Federal Ministry of Environment), Prof. Oluadepo O. Ogunsheye, MNSChE (Dept. of

Chemical Engineering, Ladokun Akintola University) and Engr. Tukur Muhammad Lawal, MNSChE, Senior GM, Environment and Community Affairs of Dangote Cement, Fares Gorbafar, constituted the panel of Discussants while Engr. Mamqud Abubakar, FNSChE (CIO, EEMS Limited) was the Moderator. The occasion was also used to celebrate the 77th Birthday of Dr. Boniface Wada, FNSChE who was born on the 5th June, 1943 for his significant contributions to the Chemical

Engineering Profession and the Nation. The Chapter Chairman, Engr. Oyekechi Omuig, FNSChE who was the Chief Host with other members of the NSChE extolled Dr. Wada for his strength and commitment to the society even at 77 years. Family members and colleagues described him as loving father, gentle, easy going, intelligent and charitable and wished that God's Blessings to age gracefully. The Chapter Exco had earlier visited Dr. Wada at home to present him with gifts.



Displaying New normal of welcome



Dr. Wada acknowledged gifts from Chapter

WALKING THE TALK AT FEDERAL MEDICAL CENTRE KEFFI

The Nigerian Society of Chemical Engineers (NSChE) FCT, Nnewiriwa Chapter has visited Federal Medical Centre, Keffi, in Nasarawa state to extend the Chapter's activities to the state in the first place but more importantly to show appreciation to health workers who are at the forefront of the war against the dreaded Coronavirus pandemic. This was

contained in the remarks of the Chapter's Chairman, Engr. Oyekechi Omuig, FNSChE, while introducing his team to the Senior Management staff of the medical centre.

Engr. Dr. Boniface Wada, FNSChE who is the Chairman of Covid-19 Committee, FCT, Nnewiriwa Chapter added that the visit was similar to the

one the Society paid to an IDP camp in the Federal Capital Territory in April 2020 in honour of their late colleague and senior Fellow of the Society, Engineer Saleman Achumagu, who was the first victim of the virus in Nigeria. He emphasized the tremendous work medical personnel did to save his life, but God in His wisdom had the final say. He opined that health workers



MD FMC welcomed team



Dr. Wada displayed items



members deserve more recognition than they are accorded presently. The Society is putting into practice the motto "wearing the hat" by producing quality chemical products to combat the COVID-19 in the country while helping the government to meet the needs of humanity.

in his response, the Medical Director at the centre, Dr. Yussuf Bello Adamu, on behalf of the management staff expressed profound gratitude to the Chapter for the visit which he described as a very encouraging and motivating visit which is very the health workers via graded the



Engr. Oluigi handing over items to FHC



Group photo with FHC Management staff

CONGRATULATIONS AND HAPPY BIRTHDAY

The Chapter wishes to felicitate with our dear members who celebrated their birthdays within the quarter in the month of April, May and June. May the Good Lord bless you as you age gracefully.



Monday, 17 April 2020

Tuesday, 21 May 2020

Wednesday, 26 June 2020

CONDOLENCE

The Chapter has received notice of the peaceful passing unto glory, Mama Felicia Aminatsu Aigbonoiden Eboerime on the 15th April 2020 at a very ripe age of 98 years. She was the mother in-law of our able Secretary, Engr. Cyril Ojoonu. May her soul rest in peace.



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COVID-19 which was first heard in China was widely reported in Nigeria and the surge in particular in Lagos and FCT Abuja resulted in total lockdown of activities and ban of gathering of any form by the Federal Government. However, the Chapter was initiated as new technologies were explored to carry out its activities virtually courtesy of our able and dynamic Engr. Mamoud Bello FHC/ChE. Consequently, the Chapter was able to hold its three General meetings for this quarter virtually in Zoom technology application. The papers titled "Project Cycle and the World Bank Environmental & Social Frameworks", "Principles and Methods in designing a 'ventilator'", and "An assessment of Remediation Potential of vegetated constructed wetland in the Bio-treatment of concrete washout

Beside holding meetings, the Chapter carried out virtual Public lecture and visited two locations to disseminate palliatives towards combating the Coronavirus and in memory of Engr. Salimatu Aminu, who was the first victim of the pandemic in Nigeria. With that, it was an opportunity for the Chapter to join in the campaign of bringing awareness to the entire society. The reality of COVID-19. We implore members and their relatives to abide by the instructions of the government and keep safe.

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The NSCE, FCT and the Nasarawa Chapter has joined the fight against COVID-19 to honour the memory of Engr. Salimatu Aminu, the first victim of Coronavirus pandemic in Nigeria. Accordingly, the former Managing Director of the Pipelife and Product Marketing Company, PPMC, a subsidiary of the Nigerian National Petroleum Corporation (NNPC), died shortly after he visited the United Kingdom and was diagnosed of coronavirus.

Speaking at the new Internally Displaced Persons (IDP) camp in Kuching in Abuja on the 22nd April 2020, Dr. Basifade Wada, who is the Chairman of the COVID-19 Committee FCT/Nasarawa Chapter said the donation of items which include foodstuff, sanitizers, dental detergent and clothing was aimed at strengthening the suffering of Nigerians during the period. Receiving the donated items, the Chairman of the IDP camp, Mr. Filimon Emmanuel, thanked the Chapter for remembering the needy in their midst and expressed gratitude for the donation. He called on other organizations in the country to reach out to the needy during this period of lockdown, saying that many families are not finding it easy to cope with the present situation. He explained that it was the second time an



Engr. Akpan inspecting a computer monitor



Engr. Akpan setting up to IDP camp from Members' office

Therefore deserve more recognition than they are accorded presently. To this end, the Chapter has brought gift items considered useful to the health workers and patients alike, as a symbol of appreciation for their dedication and sacrifice for the wellbeing of Nigerian citizens. Some of the items like the sanitizers are the products of the Nigeria Society of Chemical Engineers Company-Niche Ventures, which is very

significant in the sense that the Society is putting into practice theoretical knowledge to meet the needs of humanity.

In his response, the Medical Director of the centre, Dr. Yashu Basi Adams, on behalf of the management staff expressed profound gratitude to the Chapter for the visit which he described as timely encouragement to the health workers. He praised the

Nigeria Society of Chemical Engineers for 'linking the talk' by producing quality chemicals to combat the COVID-19 in the country. While handing the gift items to the Chairman of its COVID-19 Task Force, the Medical Director promised that the items will be used judiciously and prayed God to replenish the resources of the Chapter.



Engr. Onugi handing over items to FHC



Group photo with FHC Management staff

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Keven Okeke 5th April 2020



Aghoza Olatupo 10th April 2020



Francis Oyea 5th May 2020



Cyrl Ojeonu 23rd June 2020

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