



NBRRI NEWSLETTER

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2nd Quarter Newsletter 2022

NBRRI HOSTS 2022 AHCN COUNCIL MEETING



**GOVERNOR YAHAYA
COMMENDS NBRRI FOR
INITIATING PROJECTS IN
GOMBE STATE**



**HIS EXCELLENCY
MUHAMMADU INUWA YAHAYA
GOVERNOR, GOMBE STATE**

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NBBRI

(Vision, Mission & Core Values)

Building capacity and setting the pace in indigenous construction technology development.

VISION

To evolve and use a comprehensive and integrated approach in capacity building and investment promotion so as to foster the application of environment friendly and energy efficient innovation, construction materials, manufacturing technologies and cost effective building and road construction practices, which will enhance job creation, wealth generation and poverty reduction as well as nurture the emergence of vibrant, knowledge based and highly competitive indigenous construction companies capable of meeting global standards.

MISSION

Integrate R & B, Capacity building and robust extension services in which technology innovation and knowledge based practices in the fields of building road and engineering materials will be used to provide adequate and affordable housing and road infrastructure as well as increased economic empowerment.

CORE VALUES

- Professionalism
- Resourcefulness
- Commitment and Integrity
- Innovativeness

Editorial

I welcome you all to the 2nd quarter of the 2022 NBRRI Newsletter. We have stories that will confirm that NBRRI has accomplished a lot in the months under review despite all the challenges and disappointments.

In this edition, the New Permanent Secretary of the Federal Ministry of Science, Technology and Innovation, Mrs. Monilola Udoh assumed office, NBRRI hosts the 2022 AHCN 109 Council Meeting and national workshop that focused on addressing housing challenges of low- and medium-income earners in Nigeria. also included in this edition, Finance and Audit staff undergo a workshop.

Also featured in this edition are the various courtesy visits from different prestigious bodies and organizations like the Quantity Surveyors of Nigeria, FCT Chapter, Association of Engineering Geology and Environment, Association of National Accountants of Nigeria, University of MKAR, Benue and hosts of others seeking collaborations and lots more with NBRRI.

The DG/CEO, received various commendations from prestigious bodies including the Executive Governor of Gombe State concerning the various projects which have been commissioned in the state and the North-East as a whole.

There are pictures and stories from all these various events and trainings conducted by NBRRI to keep you informed, entertained and educated.

Daniel Makava
Editor-in-Chief

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GOVERNOR YAHAYA COMMENDS NBRI FOR INITIATING PROJECTS IN GOMBE STATE



HIS EXCELLENCY
MUHAMMADU INUWA YAHAYA
GOVERNOR, GOMBE STATE

The Gombe State Governor, Muhammad Inuwa Yahaya has appreciated the Nigerian Building and Road Research Institute, NBRI, for initiating a number of projects in the State.

Governor Yahaya stated this while commissioning a One Block of 3 classrooms constructed by NBRI at Government Day Secondary School, Shongo- Idrissa in Gombe town on Wednesday 13th April, 2022.

The Governor, who was represented by the State Commissioner of Education, Honorable

Dauda Batari Zambuk, said his administration is particularly happy with the DG/CEO of NBRI, Professor Samson Duna who is an Indigene of Gombe, noting that he has shown his love for his State via his activities.

Yahaya said the State Government has reserved a 5000 Square meter piece of land for NBRI to construct its permanent site and pledge to continue to partner with the Institute in other to bring development to the people of Gombe.

Earlier, the DG/CEO of NBRI, Prof. Samson Duna said the classrooms constructed by the Institute using its innovative technologies as part of its Corporate Social Responsibilities (CSR) and donated to Gombe State Government.

He recalled that in September 2015, countries adopted a set of Sustainable Development Goals (SDGs) to end poverty, protect the planet and ensure prosperity

for all; adding that as a nation, Nigeria is still having infrastructural challenges.

As such, NBRI has been trying to improve these indices through infrastructural provisions especially in schools across the country to ensure inclusive, equitable quality education and promote lifelong learning opportunities (environment) for all.

During the commissioning, there were felicitations from the Traditional ruler of the area, the Hakimin Lafiya Mango, the Gombe State Commissioner of Science, Technology and Innovation, Dr. Aishatu Umar Maigari and presentation by students of the school.

For the gesture of constructing a classroom block the Hakimin Lafiya Mango, Alhaji Tukur Lumbi, conferred the traditional title of Garkuwan Lafiya Mango on Professor Samson Duna.

Highpoint of the occasion was the cutting of the tape to commission the classroom followed by a tour.

PHOTO GALLERY OF THE COMMISSIONING



NEW PERM SEC ASSUMES OFFICE AT FMSTI



Mrs. Monilola Udoh has assumed duty as the permanent secretary, the Federal Ministry of Science, Technology and Innovation. Udoh, a native of Ibadan South West local government area of Oyo State, Nigeria, is a seasoned ICT professional.

She is an alumna of the University of Ife, Ile Ife; University of Lagos and Lagos Business School. Also, she has several other certificates from the Commonwealth Telecommunication Organization (CTO) UK,

Global System Mobile Communication Association (GSMA), United Nations Economic Commission for Africa (UNECA), Korea International Cooperation Agency (KOICA) and Oxford University UK on Internet leadership.

She is an accomplished ICT technocrat and has had a distinguished civil service career spanning over 33 years - during which she has been at the epicentre of policy formulation and project implementation in some key sectors.

Udoh became a federal permanent secretary in August 2020 and has served in the Federal Civil Service Commission where she digitised and conducted directorate cadre examination and promotion exercises leveraging digital technologies.

Udoh is a recipient of several commendations and awards of merit. Her project portfolio includes, among others, serving as a member of the invigilation committee for the selection of Federal permanent secretaries in 2022.

Before her present appointment as a Federal Permanent Secretary, she had served in various capacities: Member, project team, National DataBank 1991-1996; System analyst, National Planning Commission, 1997-2001; Head of IT, Supreme Court of Nigeria, 2002-2005; Head of IT, Federal Ministry of Finance, 2005-2009; IT Assistant to the Head of Service, 2009-2012; Director, ICT, Federal Ministry of Communication Technology, 2013-2019; Director, ICT Office, Head of Civil Service of the Federation etc.

QUANTITY SURVEYORS IN THE FCT VISIT NBRRI



With the various research and development responsibilities the Nigerian Building and Road Research Institute carry out in the Construction sector, it is pertinent that they keep in touch with various stakeholders and bodies in the building and road industry. It is in light of this that the Institute granted audience to the Nigerian Institute of Quantity Surveyors (NIQS) FCT Chapter at its Administrative Headquarters in Abuja on Tuesday the 26th April, 2022.

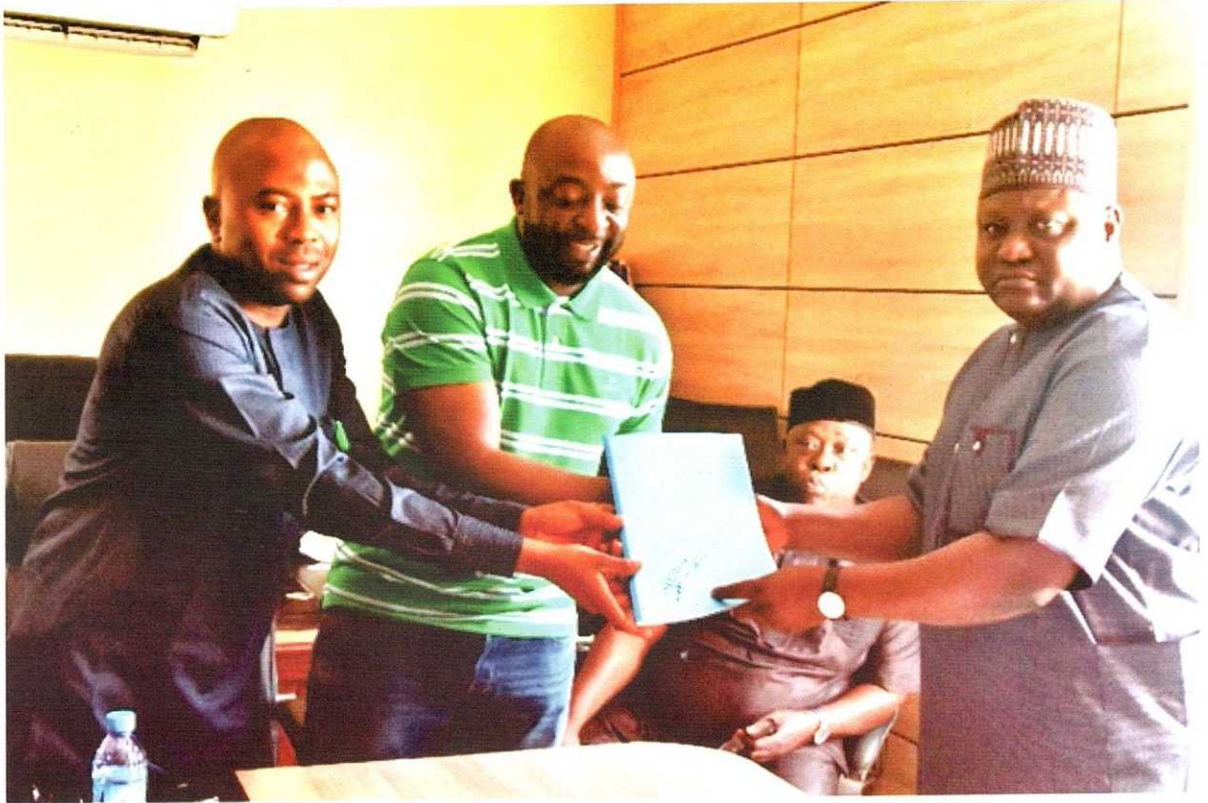
The team was led by QS Bed N. Ejiekwu, the Chairman of NIQS, FCT

Chapter. The delegation was received by the DG's representative, Arc. Tom Umoche, Deputy Director Consultancy and Extension Services along with other management staff of the Institute.

Speaking at a brief but elaborative session, the Chairman of NIQS, FCT Chapter, QS Bede Ejiekwu, said that NBRRI has no doubt made various contributions to the Engineering and Construction sector through the various research materials it has published but that it is a shame that most research works aren't taken up for implementation by the government.

QS Bede N. Ejiekwu stated that the NIQS is the profession that is in charge of total Engineering projects, from inception to completion in order to get value for the money used for construction. He also mentioned that there is need for mutual relationship and cooperation between NIQS and NBRRI with NBRRI being an institute that is responsible for integrated applied research and development. He therefore sought for collaboration in the area of research and development especially on local building materials to take advantage of the quantity surveyors expertise knowledge of comparative cost analysis.

ASQ PARTNER WITH NBRI FOR TRAINING OF YOUTHS



The Director-General/Chief Executive Officer of NBRI Engr. Prof. Samson Duna on Thursday 5th of May 2022 joyfully received delegates from ASQ Development and Training Services Limited in his office at the Institute's Administrative Head Office in Abuja when the delegates visited NBRI for the signing of Memorandum of Understanding between the two parties.

Speaking at the event, the leader of the delegates, Mr. Akinlosotu Adebawale Blessing who is also the president of the National Youth Council stated that the MoU is to seal the collaboration between both parties in area of empowerment and training of youths on construction skills and various trades within the country. He explained that the collaboration is not just between NBRI and ASQ,

but Niger Delta Development Commission (NDDC) is part of the collaboration. He emphasized that NDDC, the major player seeks the involvement of NBRI in this great drive of building the nation; stating that NBRI being one of the best Agency in the country in area of Research, Development and Innovation and has been providing a lot in training of Artisans in the country and

He also urged the DG to expand the Building Research Department to include a quantity surveying section for more elaborate

certifications in order to rid the construction industry of quacks in the field.

Responding on behalf of the DG/CEO, Arc Tom Umoche

and expand in areas of research and development. He also stated that the training of artisans is one of the ways of ridding the



cost management as this will help to engage more quantity surveyors in the institute. He then encouraged the Institute to engage consultant quantity surveyors in the implementation of the Institute's capital projects. He stated that artisans trained under the institute should be given

stressed the significance of NIQS as a body to the Institute's vision and mandate in various fields of building, road and engineering. He used this opportunity to thank the delegation for the visit and assured them that the long-standing relationship between the institute and NBRI will continue to grow

construction industry of quacks. He also promised to take all the proceedings of the visit to the DG as the DG was unavoidably absent. He thanked them for coming and he assured them that the collaboration will be a huge deal breaker for the construction and engineering sector.

bringing research work that are of international standards has all it takes to actualize this dream of making Artisans in the construction environment be of international reputes.

Speaking on the journey so far in actualizing the signing of the MoU, Engr. Prof. Samson Duna stressed on the important role NDDC and ASQ limited have played and

will be playing in youth empowerment. He also acknowledged the international recognition of ASQ being an international organization with its Headquarter based in the United Kingdom; explained that NBRI agreed to go into the collaboration because of the great work ASQ has done and the quality of training that will be

rendered with the internationally recognize certificate that will be issued to the trained Artisans at the end of the training. He then encouraged a smooth and cordial relationship between the parties so as to have positive impact in the construction sector and the country at large.



MORE NBRI INITIATED PROJECTS COMMISSIONED IN THE NORTH EAST



It was a busy mid week of glory from as the Director-General/Chief Executive Officer of NBRI, Engr. Prof. Samson Duna tour across Yobe and Borno States in the Northern part of the country to commission/handover several projects done by NBRI to the communities and schools for the socio-economic wellbeing of the people of the states and the educational growth in the country and also made a stopover for facility check in Gombe State.

On Wednesday 15th June, 2022, the DG/CEO began his tour with the commissioning of a Block

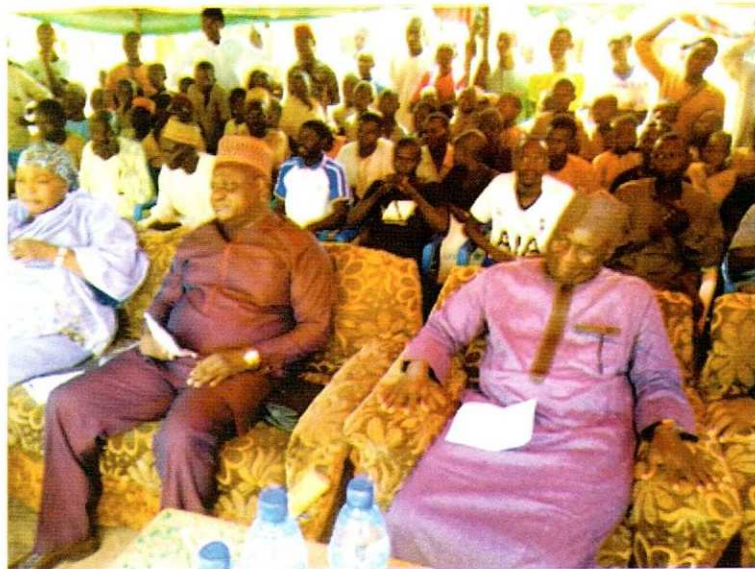
of Three Classrooms at Kukargadu, Fika LGA. Yobe State, where the DG while presenting the keys to the Chairperson of the Local Government and the School authority charged them to see the project as a booster towards improving the academic standard of the pupils. He then emphasized on maintenance culture, and assured them that if the structure is well maintained, it can be a link to attract more of such project to the local government and the state.

In acceptance of the project with great enthusiasm, the Chairperson of Fika LGA

Hon. Halima kyari Joda and other traditional leaders in the area show their immeasurable joy and gratitude to NBRI for this gesture. In her speech, Hon. Halima thanked the Institution for this great contribution and kind gesture in bringing the intervention to the community.

In appreciation of the great job the NBRI DG has done for the good people of Kukargadu, the Chieftdom deemed it necessary to bestowed on Prof. Samson a prestigious chieftaincy title as the "Sharu Kukargadu".

The indefatigable DG of NBRRI whose dream is to see the country among the tops of countries in research and development moved with his entourage from Yobe State to Gombe State for facility check of a standard Skills Acquisition Centre in Gadam, Kwami LGA, Gombe State. The Skills Centre which was commissioned by the DG few months ago is already in full use by the community has it has in it some well rated best standards equipment and



training materials. While speaking with the management of the Centre, the DG who was overwhelmed with the level of maintenance culture imbibed by the

Centre's management applauded them and encouraged them to be outstanding in all the various trades being learnt.



The train of movement did not end in Gombe as the DG and his entourage sailed to Borno State for the commissioning and handing over of a Block of Three Classrooms and Borehole at Marama Central Primary School Marama, Hawul LGA, Borno State on Thursday 16th pf June, 2022. The D G / C E O while commissioning and handing over the facilities to the community educated them on the importance of maintenance as he urged them to take good care of

the facilities. Giving the acceptance speech, the District Head, Alh Ibrahim Pama thanked the Institute for coming to their aid when such project is needed the most. He stated that since missionaries built the school in 1930, they have not witnessed such intervention and also promised to take care of the facilities. Just like the popular Oliver Twist, Alhaji Ibrahim on behalf of the community prayed for NBRRI and wished for more projects such as road and staff quarters.

Filled with joy by the project and in the spirit of the occasion, the Marama Chiefdom bestowed on the DG/CEO with a great traditional title "Padzir Marama" meaning "Friend of the Soil" While delivering the closing remarks, the Headmistress of the School graciously appreciated the Institute for providing such an intervention which will help in molding the future of the children and generations to come.



INTENSIVE TRAINING ORGANIZED FOR STAFF AT NLC, OTA

Staff of the Nigerian Building and Road Research Institute in NBRI's National Laboratory Complex (NLC), Ota Ogun State were engaged on an intensive one-day Training on "Knowledge, Attitude and Skills for Effective Performance in an Age of Disruption."

The training session took place on Thursday 23rd of June, 2022, by facilitators from Thompson International Consulting Service Limited.

Declaring the training open on behalf of the Director-General/CEO of the Institute Engr. Prof. Samson Duna, Dr. C. C. Osadebe the coordinator of NBRI's NLC, Ota/Director, Road Research Department welcomed staff to the training and encouraged them to embrace this great opportunity of learning to uplift their skills and working output. He also charged the facilitators to let out all the knowledge they have for the benefit of staff and



a successful outcome of the training to be achieved.

The facilitators who were Mr. Adolphus Odu Thomas and Mr. Enahoro did justice to the topic being treated at the training as they explained that acquisition of knowledge, skills, attitudes, and values are natural occurrence and process in humans' everyday life.

While delivering the training, a comprehensive lecture was given on Disruption, which involves Negative and Positive Disruption. It's impact of creating

strategic leadership skills in disruptive situation which equally lead to the developments of good emotional management and leadership skills. Having good leadership skills is not strictly about supervising or managing others' it's about communicating one's skills, ideas, strategy and vision as emphasized by both facilitators.

The study of emotions and how to handle emotions at work place was not left out of the training. Emotions consist of four (4) elements which are based on what we think,

see, hear or perceive, that helps to shape our thoughts, and finally our interpretation of events.

Speaking further, the trainers explained that it should be noted, that some of humans' inner drives are hidden from human consciousness.

Not leaving the term relationships out of the study, the facilitators explained that relationships never die a natural death. They are always murdered by attitude, behaviour, ego, hidden benefits, ignorance and other vices that hinders togetherness and good relationship with each other.

Diving to some exemplary qualities of leadership and what will make one a good leader, it was stated that leaders are to do the following in a

disruptive time:

" Managing feelings is a fact of life and mark of maturity of a leader.

" Ability to pick other people's emotional clues and be there for them, is a key factor that distinguished a good leader from others.

" Feelings are expressed by tone of voice, facial expressions and non-verbal cues.

" Sensitivity to all matters.

" Bluntness can be

reflective of a lack of sensitivity.

" So does aloofness and indifference.

As expressed by the attitude of staff and spoken about by some staff after the training, the training gave staff of the institute, an all-round teaching that will not only improve their work sense, but help them to interact and be a goal getter in NBRRI and the world at large.



ASSOCIATION OF ENGINEERING GEOLOGY AND ENVIRONMENT VISITS NBRI HEADQUARTERS



A high-powered delegation from the Nigerian Association of Engineering Geology and Environment (NAEGE) on Friday 24th June 2022, paid a courtesy call on the Director General/CEO of the Nigerian Building and Road Research Institute NBRI Professor Samson Duna and top management staff at the Administrative Headquarters in Abuja. Speaking during the visit, the National President of NAEGE

Waliu Kayode Adeolu, said his team was in NBRI to commend the DG for the strides achieved by the Institute under his tenure. He added that NBRI is now an established stakeholder in the construction industry of the Country as its researches are impacting the lives of Nigerians. He used the occasion to inform the NBRI DG of the forthcoming 3RD IAEG Africa Regional Conference And 7th NAEGE Annual

International Conference which is slated to take place in Lagos on the 9th - 14th October, 2022. The theme of this two-in-one conference is ENGINEERING GEOLOGY (Imperative for Infrastructural Development and Sustainability of Cities in Africa). Alhaji Waliu at the event officially invited NBRI to participate in the conference specifically in the following areas:

I. NBRRI to present a position paper particularly on building collapse in Nigeria.

II. NBRRI Research staff to send in relevant papers that will be peer reviewed for presentation at the conference.

III. NBRRI to have its own stand at the Exhibition segment of the conference

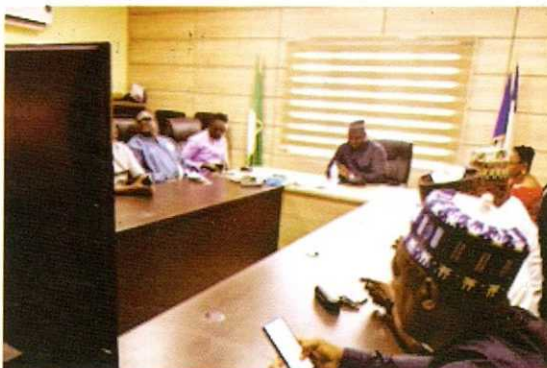
IV. NBRRI to also assist in the sponsorship of the conference.

The NAEGE President also called for collaboration between the Association and NBRRI in the area of research adding that such initiative will be very beneficial to the Country. He also appealed that

NBRRI allows NAEGE student members to come for their internship at the Institute.

Responding, the DG CEO of NBRRI, Prof. Samson Duna said NAEGE is his constituency as he is a Fellow of the Association. Duna noted that NBRRI had done so much in the areas of research citing the Pozzolana cement complement, the Ondo Tar sand potentials, the integrity of Bridges in Nigeria and compressed earth blocks as examples. The DG welcomed the idea of a collaboration between NBRRI and NAEGE especially if it is within the mandate of the Institute. He challenged

NAEGE members to bring up research studies that will be impactful saying NBRRI will fund such studies fully. Prof. Duna accepted the invitation to the conference organized by NAEGE as well a NBRRI presenting a position paper during the forum. He also pledged to sponsor NBRRI Research staff whose papers are accepted for presentation at the conference. The DG further welcome interns from the Association for study experience noting that NBRRI now has state-of-the-art materials testing equipment in its Laboratory which they can benefit from.



ASSOCIATION OF NATIONAL ACCOUNTANTS OF NIGERIA VISIT TO NBRI HEADQUATERS, ABUJA

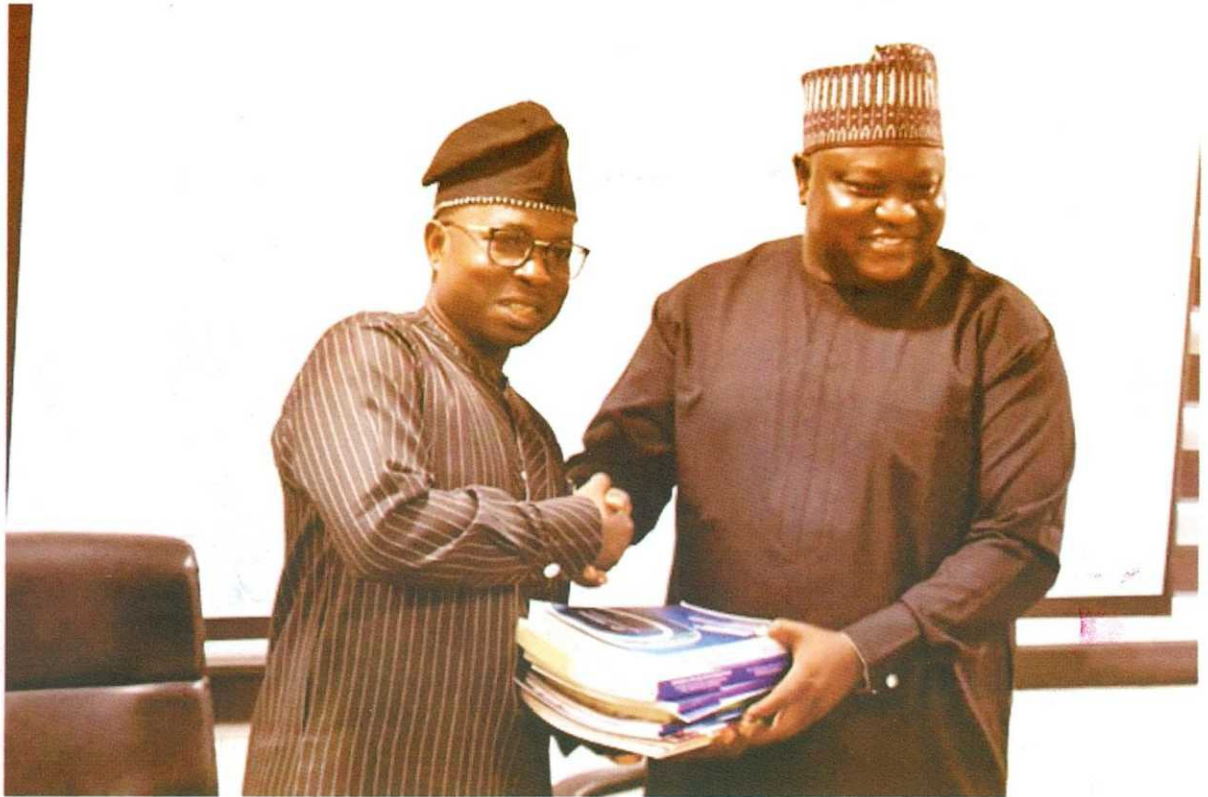


The Mr. Omoniye AbdulWahab's led executives of the Abuja branch of the Association of National Accountants of Nigeria (ANAN) were at the Nigerian Building and Road Research Institute's Administrative Head Office in Abuja on Friday the 24th of June 2022 for a special courtesy visit to the Director-General/CEO of NBRI and the Institute at large. Briefing the DG/CEO and the staff of NBRI present at the occasion on the purpose of the visit, Mr. Omoniye AbdulWahab explained that the purpose of the visit to NBRI is to appreciate the DG/CEO for his good

leadership style in the institute and showing great concern on the welfare of staff of the institute. He also stated that the visit is also to present a letter of nomination of the DG/CEO for an "Award of Exceptional Leadership" by ANAN. He stated that this award shall be presented during the ANAN week which shall be celebrated in July. He explained that the ANAN week is the greatest event celebrated by the association which is celebrated once in the tenure of any executive body and its being celebrated bi-annually.

He also added that another great purpose of the visit is to seek for the permission of the DG and management to establish ANAN coordinating Unit which will have a liaison officer in NBRI to assist in coordinating the affairs of her members in the institute.

In conclusion, Mr. AbdulWahab stated that the Abuja branch of ANAN is also into corporate social responsibilities as the association has scholarship package for some indigent students who are finding it difficult to have basic education financially.



Appreciating the visit of ANAN executives to NBRRRI, the DG/CEO of NBRRRI, Engr. Prof. Samson Duna began by appreciating the branch president of ANAN and his executives for finding it worthy to visit NBRRRI. He went further to explain various areas of interventions NBRRRI has stretched its tentacles to in the country mainly areas like building collapse, bridge and road failures, artisan training and so on. He then used this means to educate all present

on the importance and benefits of belonging to a professional body as he urged members of ANAN in the institute to always attend the professional meetings and those yet to identify with the association to do so as soon as possible. He also promised to play a fatherly role to make sure that accountants in the institute grow to the level of becoming Fellows of the professional body of ANAN

Speaking on the area of corporate social responsibilities, he

appreciated the association and advised that they should look at other areas such as skills acquisition to empower and create employment for more youths within the country. He promised that if the association sees the need for that, NBRRRI will be ready to partner with them in that aspect. He encouraged the association to come up with a plan that will lead into signing of MoU with NBRRRI in that regards.

UNIVERSITY OF MKAR SEEKS NBRI'S INTERVENTION AND COLLABORATION



The Director-General/CEO and top Management of the Nigerian Building and Road Research Institute (NBRI) welcomed the Vice-Chancellor and delegates of the Executive Council in charge of the University of Mkar, Benue State to its administrative headquarters on the 31st of May, 2022. The executive council was led by the able Vice Chancellor of the University, Prof Zacharys Anger

Gundu.

While stating the reason for the visit, Prof Zacharys stated that the university is owned by the NKST Church of Christ and was established in 2005. He explained that the NKST which Acronym stands for 'Nongo u Kristu i Ser u sha Tar' (Translated as Universal Reformed Christian Church) in her wisdom and quest for educational drive for the betterment of the country established the University of

Mkar. So far, the university has 4 colleges which include, Colleges of Arts, Sciences, Management and Social Sciences and has a total of about 2,000 graduands. He also stated that the vision of the university is to be a world class university that is committed to the advancement of knowledge through quality teaching, research and holistic education that puts God at the center of all learning.

NBRRI HOSTS 2022 AHCN COUNCIL MEETING



The Administrative Headquarters of the Nigerian Building and Road Research Institute (NBRRI) in Abuja from Tuesday 28th to Thursday 30th of June, 2022. hosted a three-day national workshop on addressing housing challenges of low and medium income earners through alternative building materials and 109th council meeting of the Association of Housing Corporations of Nigeria with the theme: "Alternative Options for Housing the Low and Medium Income Earners

in Nigeria" beginning Declaring the workshop open, the Permanent Secretary of the Federal Ministry of Science, Technology and Innovation Mrs. Monilola Udoh stated that research reveals that Nigeria's Housing deficit is triggered by high cost of building materials, poverty, increasing population, poor access to mortgage financing, and high rate of rural-urban migration. Speaking further, she explained that Nigeria's present housing deficit as of December 2018 was

estimated at a staggering 20 million unit which is about 15.0 per cent increase from the figures in January 2017.

"About ?21 trillion will be required to finance the deficit. From the report of the World Bank in 2018, Nigeria requires about 700,000 housing units annually, spanning through a 20-year period to accommodate the rising population. This is highly unattainable with current indices, coupled with the sluggish growth of housing sector in Nigeria. With a population of

He also mentioned that the school was established with the mission to fulfill their vision by developing change agents in the academy, church and society by using their knowledge based on God's word for service and to develop whole people through a university education that is qualitative, comprehensive, relevant and propels the individual to be self-reliant.

Prof. Gundu precisely stated that the reason for the courtesy call is of two important request which are based on collaboration in terms of using NBRRI's technology (most especially the NBRRI interlocking

blocks) for some major structures in the university compound and also solicited for the donation of NBRRI's interlocking block making machines for the production of NBRRI's Stabilized Earth Blocks which will be of immense benefit to the school and community. He stated that the availability of clay in large quantity in the locality is an added advantage. He stated that the second request is the support of NBRRI to help in the establishment of the department of Ceramics in the university.

In response, the DG/CEO of the institute, Prof. Samson Duna welcomed them for coming. He also

mentioned the various contributions NBRRI has made to the engineering sector like the training of artisans in various sub regions of the country, production of engineering machines amongst other things. He however welcomed the idea of using NBRRI's technologies to build major structures in the university compound as he would get back to them on other requests. He thanked them for coming and wished them journey mercies back to their destination. The Delegation later took a tour of the NBRRI Materias Testing Laboratory.



approximately 197 million (World Bank, 2019), coupled with high demand in housing units, both in quantity and quality, there is need to seriously address the issue of housing deficit in Nigeria," she said.

Speaking at the occasion, the Director-General/CEO of NBRI Engr. Prof. Samson Duna called on all members of the association and private developers in the housing industry to fall back on the use of locally-sourced and developed building materials which are abundant in the country. He also stated that it is his desire and fulfillment that NBRI is playing host to this great event that will channel new and workable course for the realization of the set goals of the workshop. He used this means to urged the AHCN to rise up to her motto which says, HOUSING THE NATION, EMPOWERING THE PEOPLE. The DG then promised that NBRI will always support and create

conducive environment for AHCN to function optimally. In his speech, the President/Chairman of the AHCN Dr. Victor Onukwuga ably represented by the 2nd Vice President of the council, Arch. Williams Idakwoji explained that the objectives of the founders of the association was to solve the then growing housing problems especially in the urban centres by advising government of the federation on their housing policies projects and programmes.

"This, the association was able to achieve through various national and international seminars and workshops, exhibitions and conferences where useful suggestions on housing policies emerged which aimed at making decent accommodation accessible to Nigerians at affordable costs," he said.

The Director, Construction of the Federal Ministry of Works and Housing, Arch.

Bashir Usman who represented the Hon. Minister for Works and Housing HE. Babatunde Raji Fashola SAN said the choice for this year's theme "Alternative Options for Housing the Low and Medium Income Earners in Nigeria" was apt as it is coming against the backdrop of the COVID-19 pandemic that has led to permanent job losses, project abandonment, cost overrun, time overrun, claims and litigations arising from construction disputes, the impact of which is felt more by low and medium-income earners.

The Minister encouraged participants to remain steadfast in their regular participation, contributions and support in the evolution and survival initiatives for alternative and local building materials and the associated technology to go with its success.



MORE PICTURES FROM THE OPENING CEREMONY OF THE 109TH AHCN COUNCIL MEETING



COMMUNIQUE ISSUED AT THE END OF A 2-DAY NATIONAL WORKSHOP ON "ADDRESSING HOUSING CHALLENGES OF LOW AND MEDIUM INCOME EARNERS THROUGH ALTERNATIVE BUILDING MATERIALS" AND 109TH COUNCIL MEETING OF THE AHCN HELD IN ABUJA FROM 28TH TO 30TH JUNE, 2022

PREAMBLE

The Association of Housing Corporations of Nigeria held a 2-day National Workshop on "Addressing Housing Challenges of Low and Medium Income Earners Through Alternative Building Materials" combined with its 109th Council Meeting at the headquarters of the Nigerian Building and Road Research Institute (NBRRI House) Abuja from 28th-30th June, 2022.

At the end of the programme, the following resolutions were agreed upon by the Delegates:

1. The meeting notes and commends various research works and development of Nigerian Building and Road Research Institute (NBRRI) over the years which culminated in the discovery and development of Interlocking Cement Stabilize Earthly Blocks (ICESEBs), Interlocking stabilized Recycled Plastic Blocks and production of

pozzolana cements a partial replacement of Portland Cement which are procured from locally sourced, readily available raw material with cementing properties serving as partial replacement for conventional cement with a completely built pilot plants in both NBRRI premises, Ota in Ogun State and at Bokkos in Plateau State; and call on governments to embrace the use of NBRRI technologies in projects to set an example for its acceptance by Nigerians.

2. The workshop decries the dependency of major developers on importation of conventional building materials and the surging price increase of those materials arising from escalating inflation and worsening forex instability and calls for the development of research works on local Alternative Building Materials to address the housing

challenges of low and medium income group.

3. The meeting commends the support of the Federal Ministry of Science, Technology and Innovation to the Nigerian Building and Road Research Institute (NBRRI) in execution of its mandate and calls for more support and funding of NBRRI to enable the agency embark on various researches on alternative building materials in the country.

4. The workshop notes the rising inflation and the unemployment rates arising from global economic crisis and unstable forex market which drives Nigeria economy and implores stakeholders in the housing sector to create a sustainable pathway of maximizing inherent opportunities in utilizing available and alternative building materials to address affordable housing challenge for the low income group in our society.

5. The meeting observes the neglect and exclusion of the informal sector as off-takers for organized housing projects as a result of their unstable income and solicits for harmonization of the informal sector in to the main stream of housing provision through appropriate coordination of housing cooperatives to cater for these strata of the low and medium income group.

6. The workshop identifies abundance of alternative building materials in large deposits across the country, and enjoins governments at all levels and all stakeholders in the built sector to take advantage of this materials to solving the affordability question of low income group and to tackle the bulging housing deficit.

7. The workshop notes the availability of local building materials and calls on governments and all Nigerians to embrace the use of local building materials as appropriate alternative for addressing availability and affordable housing in Nigeria. State governments are encouraged to set up pilot

scheme of local building materials plants in all the state of the federation where such materials are available to encourage development and acceptance of local building materials in Nigeria.

8. The workshop enumerates the numerous advantages of alternative building materials to include being eco-friendly, abundant local supply of raw materials, cost reduction, tripling the speed of house-building, effective utilization of manpower and man-hour, empowering the people economically and improving the GDP of the nation among others.

9. The meeting notes various research works and development of alternative building materials without matching investment and stimulation of mass production of such finished products in the market; and calls on governments to support NBRRI and other infrastructural research organizations to improve on indigenous technologies that will attract potential investors in investing and fast track the mass production of

already developed locally sourced alternative building materials.

10. The workshop admonishes governments and alternative building materials researchers to embark on aggressive public enlightenment to stimulate, encourage and educate the people on the advantages of using locally sourced alternative building materials in solving housing challenges of the low income group.

11. The meeting recognizes the inherent opportunities in alternative building materials market and implores stakeholders especially state housing corporations to explore and take advantage of commercial viability of available locally materials in their respective states to develop alternative building materials for provision of quality low cost housing for the people.

12. The meeting recognizes the inherent opportunities in business partnerships in developing business synergies and strategic alliances to reduce cost and expand into new markets in housing provision and calls for

effective partnership models and synergies between Family Homes Funds and the Federal Mortgage Bank of Nigeria, FMBN to enhance development funding and wholesale mortgage lending and origination to reduce housing shortfall in Nigeria.

13. The workshop commends the recent FMBN review of the off-takers guarantee which makes it acceptable and bankable in favour of housing corporations to enable them access construction loans from commercial banks and calls on all state governments to support their housing corporations to take advantage of these opportunities for mass housing projects.

14. The meeting notes the contributions of FMBN in advancing the adoption of Alternative Building Material with funding brick city in Abuja especially as a strategy for providing affordable housing for the vulnerable segment of the Nigerian society and calls on all National

Housing Funds
Subscribers to take advantage of NHF windows to become homeowners.

15. The meeting decries the use of quacks and unqualified people in the sector which have contributed to so many losses of lives arising from incessant building collapse across the country, and calls for adoption of safety measures throughout construction as well as constant training and retraining of artisans in the built environment to get them acquainted with the new methods of construction alongside the use of alternative building materials.

16. The workshop bemoans the increasing housing shortage and acute problem of housing availability, accessibility and affordability without corresponding actions to match the demand and calls for urgent collaboration among stakeholders with pragmatic and realistic strategies that will directly address the housing needs of the

people and at the same time create and empower the people to reduce unemployment in our society.

17. The workshop notes and commends the efforts of the Federal Mortgage Bank of Nigeria and the Family Homes Funds in their efforts to make affordable housing available to low income earners and calls for Structural Reformation of Housing Corporations as Instruments of Driving Affordable Housing Provisions to all Nigerians.

18. Finally, the Association commends and appreciates the Nigerian Building and Road Research Institute for their support in hosting the workshop combined with the 109th Council Meeting of the Association and notes that such gesture shows the commitment of the organization to the development of housing sector in Nigeria.

Dr. Victor Onukwugha
President,
AHCN

NSE OTA BRANCH SEEKS COLLABORATION WITH NBRI



The management and staff of NBRI at the National Laboratory Complex (NLC), Ota on Thursday 30th of June 2022, received with delegates of the Nigerian Society of Engineers, Ota Branch when the latter visited the complex on a special courtesy call to the institute.

Welcoming the visitors on behalf of the Director-General/CEO of NBRI, Engr. Prof. Samson Duna, Dr. C. C. Osadebe, Coordinator of NBRI's NLC, Ota welcomed the visitors and briefed them of the level of progress and impact the institute has made in the country in areas of R&Ds and other engineering interventions. He

enjoined them to see NBRI as their homes because the institute is made up of professional Engineers.

Briefing the audience of the purpose of the visit, the chairman of the Society Engr Adeyemi explained that they are back home because NBRI is actually the starting point of NSE though it is the first time the Society is visiting and equally appreciated the institute for all they have done for the Society so far.

Also in his speech, he stated that they know that most Engineers in NBRI are registered with the Council for the Regulation of Engineering in Nigeria (COREN) but

emphasized that there is need for them to register with the NSE as well.

Speaking about high cost of building materials in the country, Engr. Adeyemi lamented the hardship it is inflicting on the populace in the country, stating that drastic measures need to be taken to stop the hardship. He stated that a strong collaboration needs to be reached between NBRI and the society to see how both bodies can handle a good portion of the issue. Moreso, as a way further, he explained that it is a thing of an importance that the Society deemed it necessary to visit NBRI and see some of its

innovations and see if the society can be involved in making sure NBRRI's products are known and marketed to the outside world because they

believe it will reduce the high cost of building in the country.

To end his speech, Engr. Adeyemi appealed to the management of NBRRI

that NSE, Ota branch will be grateful if the institute approve an office space for them in the complex to serve as their Permanent Secretariat.



In response, Dr. Osadebe said that NBRRI has various research departments but in whatever capacity they want to be involved, the Institute has its Headquarter in Abuja and all their request will be made known to the Director-General and urged the Chairman to make an official request that lies within the Institute's mandate which he believes the Director-General will be happy look into their request with consideration. Also, the Coordinator

said NSE should collaborate with NBRRI's Extension and Consultancy Services (CES) Department for possible marketing of NBRRI's R&Ds.

Speaking on marketing and collaboration, Head of CES Department NBRRI Ota, Engr Akinlade James briefed the house about recent Collaborations with Agbara Chamber of Commerce and believed with the new relationship with NSE, NBRRI's products will come to limelight.

The Head of Engineering

Materials Research Department, Engr Dr Friday. Apeh also gave a brief speech and re-emphasized that the mandate of NBRRI is to ensure the production of alternative building materials like bricks, roofing materials etc.

A tour of the Society on NBRRI's facilities to EMRD Workshop, Pozzolana plant, Science Laboratory Technology Department Lab and other areas in the Complex was conducted and led by Engr. Dr. Friday Apeh.

FINANCE AND AUDIT STAFF ATTEND 2-DAYS WORKSHOP



A 2 Day workshop organized for Staff of the Finance and Accounts department as well as the Audit Unit of the Nigerian Building and Road Research Institute (NBRI), took place on the 29th and 30th of June, 2022 at the Institute's ICT Centre, Abuja.

While declaring the workshop open, the DG/CEO of the Institute, Prof. Samson Duna urged the Trainers to impart on the participants the practical

aspects of the workshop so that its impact can be easily felt.

Prof. Duna added that as an effective way of imparting its employees with necessary procedures it will increase productivity and develop strong job satisfaction.

The DG/CEO gave four core mandates where his stewardship will concentrate more on as follows:

1. Training and acquiring additional qualifications.

2. Purchasing of best equipment in terms of research.

3. Facilities/work environment.

4. Staff welfare, to put a smile on our faces.

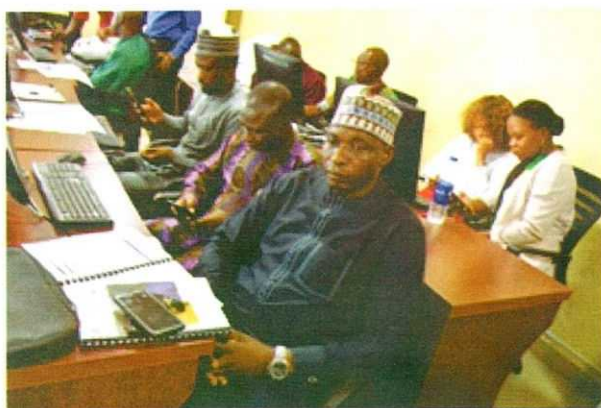
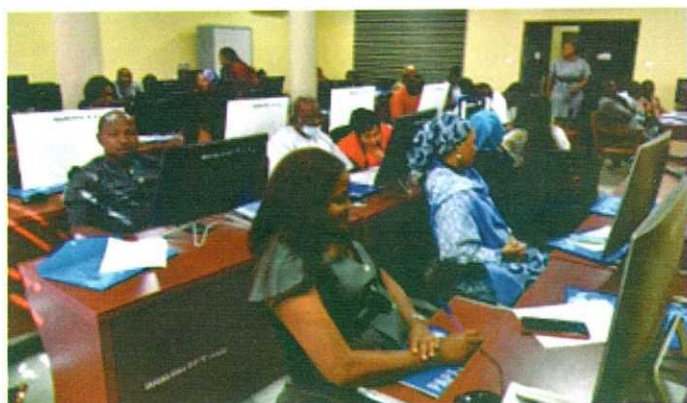
Earlier, the Director of Finance and Account Mr. Ignatius Onwusiri in his opening remarks expressed joy over the seminar and showed gratitude to the DG/CEO for his approval of the workshop.

his approval of the workshop. The Director also urged the staff of to take the workshop very serious as it will go a long way at easing their work and adding to their experience.

The two-day workshop with t h e t h e m e :

AUTOMATION/ELECTRONIC ACCOUNTING SYSTEM" is being organized by NESP CONSULTANCY NIG. LTD, with the aim of improving the proficiency of the Finance and Audit Staff in areas of: Understanding Microsoft Excel Interface,

Payment Voucher and Vote Book, Introduction to Cashbook, Preparation of Daily Analysis Book, Preparation/Generation of Financial Statements, General Ledger and Trial Balance.



SEMINAR PAPER PRESENTATION CORROSION CHARACTERISTIC OF ZINC SNAIL SHELL COMPOSITE ORGANIC COATING ON MILD STEEL

BY SUBAIR, O.W (EMRD)



ABSTRACT

Coating of mild steel with zinc to enhance corrosion resistance is a well-established technology for the extension of its service life; but the phenomenon of white-rust due to the deterioration of the zinc coating is a challenge to this electroplating process. Researchers works on provision of inert materials for this process are expensive and at static environment.

In this work, snail shell a composite organic material was added on

electroplated zinc coating and corrosion characterization was investigated at dynamic environment typified by the University of Lagos Lagoon. Mild steel obtained for this work were sectioned into 50 X 40 X 3mm dimension, metallographically processed, electroplated in the bath with zinc and snail shell particle within this process parameter windows of constant current density, voltage, Ph, time, and temperature (4A/dm², 0.8V, 4, 20 minutes, and 300K) respectively, immersed in Lagoon water for 21days and observed at 3 days interval and finally characterized by gravimetric and polarization techniques for corrosion behavior.

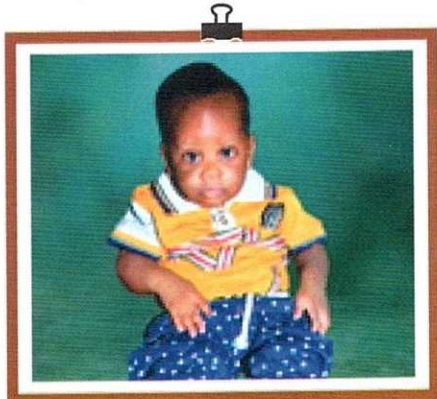
The result obtained showed that mild steel with 2g of snail shell composite addition had the best coating and its

composite coating reduced the corrosion in the mild steel by 72,4% compared to the 27,6% obtained in monolithic zinc coating. Structural analysis of the coatings indicated that the improvement accomplished in the composite coating was due to the evenly distributed inert passive film introduced into the matrix by the snail shell which shielded the zinc from direct exposure to the testing medium.

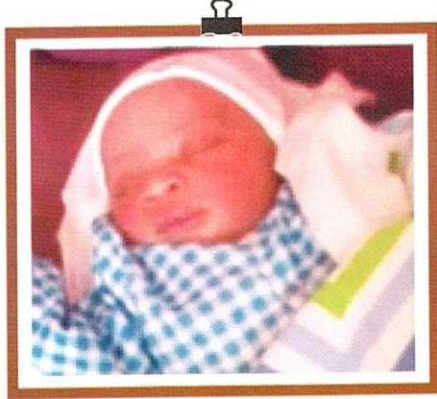
The findings from this investigation suggested that snail shell offer potentials as complementary coating substance to zinc for improving corrosion characteristic of mild steel in dynamic environments. **KEYWORDS:** white-rust, electroplating, metallographically processed, gravimetric, polarization technique.

SOCIAL DIARY

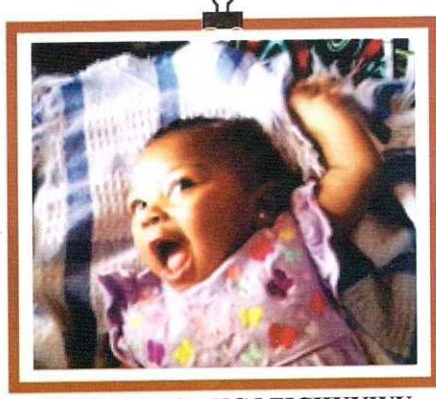
BIRTH



BABY OSHIOKE PASCHAL KELECHI
*Born On 4th April, 2022 To The Family Of
Mr. Richard Makava of PIT Department Abuja*



BABY HASSAN ALIYU
*Born On 10th October 2021 To The Family Of
Mr. Aliyu Hassan of RRD, Kano Office.*



BABY PRAISE NGOZICHUKWU
*Born On 4th July 2021 To The Family Of
Mr. Osuorji Gideon Of RRD, Ota.*

Congratulations



Engr. Prof. Samson Duna bestowed with a traditional title on Thursday 16th June, 2022 as the Padzir Marama meaning Friend of the Soil by the Marama Chieftdom, Borno State.

THE DEPARTURE OF A PROMISING STAFF



We lost a colleague, a friend and a brother Mr. Asuquo, Eyibio Asuquo.

The entire NBRRI and mostly the Science Laboratory Technology Research Department was thrown into dismay, mourning when the sudden news of the demise of its promising hero Mr. Asuquo, Eyibio Asuquo was announced.

Asuquo was born in Ubiemen village, Ukwa Eburutu in Odukpani Local Government Area of Cross River State of Nigeria on the 18th of December 1986 and left

this world to eternal glory on April 22nd 2022.

He had his primary education at St. Mary's primary school, Cross River State Nigeria in 1997; Secondary School Education at Community School Ukwa-Ibom in 2002 and later proceeded to Cross River State University of Technology where he obtained his Bachelor's degree in Chemistry in 2009.

He was given an offer of appointment on the 4th of September 2015 as a Research Officer in the Science Laboratory Technology Research Department, Nigerian Building and Road Research Institute (NBRRI) National Laboratory Complex Ota, Ogun State.

He was later posted to

NBRRI Administrative Headquarters, Abuja in August 2018. He rose from Research Officer II to Senior Research Officer in 2022.

Besides his contributions to the Institute through Research, he was the Committee Secretary of NBRRI's Anti-Corruption and Transparency Unit (ACTU) before his demise.

He was a devoted Christian, open - minded and an easy going individual, loved by many. He is survived by Wife, Children, Parents, and Siblings. He would forever be remembered by all. We love you but God loves you more.

May his gentle soul continue to rest in peace

NBRRI LOSES A DEDICATED STAFF



Late Sunday Enyi Egbe was born on the 21st April 1975 to the family of Late Elder and Mrs Iwara Enyi Egbe family of the Aba-anani of Enugwehuma in Ediba Abi Local Government Area of Cross River State.

Late Sunday Egbe (Sunny) as fondly called by friends had his early education at Iyamitet Obubra LGA.

He attended St. Mary's Primary School, graduated in 1984m,

secondary education at Brendan Secondary School Iyamoyong in September 1985 to 1990 where he obtains his West African Examination Certificate (WAEC), and later proceeded to Ibrahim Babangida College of Agriculture now CRUTECH at Obubra Campus in 1997 and graduated with National Diploma (ND) in Animal Health and Production in 1999.

In his quest for education, He enrolled for a part time programme with the Benue State Polytechnic UGbokolo to pursue another National Diploma (ND) in Marketing from 2006 to 2007, then further his education with a Higher National Diploma (HND) Marketing in the year 2008 and graduated in 2009.

Late Mr. Sunny Egbe join the services of the Nigerian Building and Road Research Institute (NBRRI) on 8th December, 2010. He was employed as an Extension Officer II under the Consultancy and Extension Services (CES) Department where he rose to the position of Assistant Chief Executive Officer, a promotion he got on 20th December, 2021 before his demise.

He was humble and a hard-working staff. He will be missed by NBRRI staff especially the CES department.

Mr. Sunny Egbe died on 26th March, 2022. He is survived by a wife and four children.

RIP Sir.



THE ONE STOREY BUILDING CONSTRUCTED BY NBRI USING ITS TECHNOLOGY WAS THE CENTER OF ATTRACTION DURING THE 2022 SCIENCE TECHNOLOGY AND INNOVATION EXPO HELD AT THE EAGLE SQUARE ABUJA. THE EDIFICE EARNED THE INSTITUTE OVERALL 2ND POSITION IN THE FEDERAL GOVERNMENT MINISTRIES & AGENCIES CATEGORY. EXPECT AN UPGRADE OF THIS BUILDING IN THE 2023 EDITION OF THE EXPO.



NBRRI INTERNATIONAL HEADQUARTERS

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