



NBRRI

NEWSLETTER

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The Quarterly Newsletter of the Nigerian Building and Road Research Institute

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SOME NBRII PUBLICATIONS

NBRII TECHNICAL REPORT NO. 22: Collapse of Buildings in Nigeria: Technical Report on the Collaspe of a 2-Storey Building at Mararaba (Near Abuja), 22pages, Oct 2011
NBRII TECHNICAL REPORT NO. 23: Collapse of Buildings in Nigeria: Technical Report on the Collaspe at Adenubi Close, Ikeja, Lagos State, Nigeria, 19pages, Oct 2011
NBRII TECHNICAL REPORT NO. 24: Preliminary Survey of some Limestone Deposits in Nigeria, 12 pages, April 2012.
NBRII TECHNICAL REPORT NO. 25: Preliminary Survey of Some Clay Deposits in Nigeria, 8 pages, May 2012
NBRII TECHNICAL REPORT NO. 26: Report on a Collapsed Building in Ilorin, Kwara State, Nigeria, 16pages, July 2012
NBRII TECHNICAL REPORT NO. 27: Design and Fabrication of Water-Bitumen Spraying Machine, 16pages, July 2012
NBRII TECHNICAL REPORT NO. 28: Design and Fabrication of Cube & Beam Moulds and Slump Cone Apparatus, 14 pages, June 2013
NBRII TECHNICAL REPORT NO. 29: Collapse of Buildings in Nigeria- Analyses of Collapse of Two-Storey Building at Kubwa Extension III, 37pages, December 2012
NBRII TECHNICAL REPORT NO. 30: Engineering Characteristics of Subgrade Soils of Kogi State, Nigeria Analyzed for Economic Pavement Design, 25pages, December 2012
NBRII TECHNICAL REPORT NO. 31: Assessment of Speed Trends During Day-Time and Night-Time of Nigerian Drivers: A Case Study of Abuja Metropolis, 60 pages, May 2013
NBRII REPORT No. 32: Evaluation of a Nanotechnology-Based Polymer on some Tropical Soils. pages. 2014
NBRII REPORT No. 33: Investigation of Road Failure in Nigeria: A Case Study of Enugu-Port Harcourt Expressway. 48pages. December 2013
NBRII REPORT No. 34: Effect of Mineralogical Composition on Performance Characteristics of Compressed Stabilised Earth Blocks (CSEB). Pages. December 2014.
NBRII REPORT No. 35: Technical Report on the Collapse of Six-Storey Guest House of the Synagogue Church of All Nations (SCOAN) In Ikotun-Egbe, Lagos State, Nigeria. ... pages. November 2014
NBRII RESEARCH SEMINAR: Book of Abstract NO. 1; <i>Tuesday Bi-Weekly Seminar (2011-2013)</i> . 15 pages. April 2014
Proceedings of NBRII Stakeholders' Forum: Bridging the Gap Between Building & Road Research and Stakeholders,pages, May 2011
Proceedings of National Technical Workshop on Building Collapse In Nigeria: Curbing the Incidences of Building Collapse In Nigeria, ... pages, July 2012
Proceedings of National Conference on Road Pavement Failure In Nigeria: Challenges of Road Pavement Failure in Nigeria, 161pages, June 2013
HOUSING SUMMIT 2014: Proceedings of International Conference on Achieving Affordable Housing in Nigeria, 221 pages. 2014
The Challenges of Building Collapse in Nigeria, 52pages, May 2012
Road Safety Guidelines for Nigeria (RSG 2014), 240 pages
West African Journal Of Building and Road Research, Vol. 1 (2), November 2015, 85 pages
NBRII CONSTRUCTION DIGEST No. 1: Corbelling in Residential Buildings, 16pages, June 2013
NBRII CONSTRUCTION DIGEST No. 2: Nigerian Housing Policy- Challenges and Prospects, 15pages, December 2013
NBRII CONSTRUCTION DIGEST No. 3: Construction for Durability in Nigeria- The Strength of Building Materials, 15pages, January 2014
NBRII CONSTRUCTION DIGEST No.4: Laboratory and Field Tests for Quality Control of Road Works, 16pages, January 2014

NOTE: ALL REPORTS ARE AVAILABLE AT NOMINAL COSTS FROM NBRII

EDITORIAL

Another year 2015 has rolled by. For the Nigerian Building and Road Research Institute (NBRRRI), it was an interesting and eventful year with achievements beyond all expectations. For example, the tenure of the Director-General/CEO of NBRRRI was renewed for a second term. The Governing Board of the Institute was dissolved. A successful and well attended International Conference on Roadmap for Safe, Efficient and Sustainable was held. There was significant boost in R&D activities and Research Innovations uptake in the Institute.

At the level of the parent Ministry, Federal Ministry of Science and Technology (FMST), significant but positive changes took place. The first change of note was the appointment of an erudite academician and an astute politician, Chief (Dr.) Ogbonaya Onu as the Honourable Minister of Science and Technology by the President of the Federal Republic and Commander-in-Chief of the Armed Forces, Muhammad Buhari, GCFR. The FMST could not have been luckier with the choice of Chief Onu who incidentally was the first Governor of Ebonyi State. It is on record that Chief Onu, who also is a Chemical Engineer and a Fellow of the National Academy of Engineering, has great faith that Science, Technology & Innovations (S,T&I) can effectively drive the Nation's economy. When he was Governor, he set up a Science Village which unfortunately was scrapped when he left Office. It is therefore no wonder that Hon. Minister has vowed to be the best performing Minister under the current dispensation. *NBRRRI Newsletter* has provided a profile on the Chief (Dr.) Ogbonaiya Onu and we wish him a good and successful tenure.

The second significant change in FMST is the appointment of the immediate past Permanent Secretary in the FMST, Mrs. Winifred Oyo-Ita as the Ag. Head of Service of the Federation, and the first female to hold that position. The third significant change is the redeployment of another acclaimed Scientist, Dr. Mrs. Habiba Muda Lawal, as the new Permanent Secretary of FMST. These two great women of substance are featured in this edition. *NBRRRI Newsletter* wishes these great achievers

successful tenures as they continue to render service to Nigeria.

The role of professional bodies in the practice of Engineering in Nigeria is quite essential and critical. For the Nigerian Academy of Engineering (NAE), which is an Academy of professionals that have reached their pinnacle in different engineering fields and whose individual membership has an average age of 70 years, this assertion is an understatement. *NBRRRI Newsletter* had an interview with the President of NAE, Prof. Rafiu I. Salawu, who gave an insight into the relevance of the Academy to the Nigerian economy, their activities, achievements, interactions with NBRRRI, Nigerian Universities, the Engineering community, the Nigerian Government, etc. The excerpts from this interview are a delight to read as it is as informative as it is interesting.

The DG/CEO of NBRRRI once again added new feathers to his cap. The first was the conferment of an Award on the DG/CEO, Professor Danladi S. Matawal by the Zurich, Switzerland-based International Road Federation (IRF). The 2015 IRF Award for Excellence in Road Safety, Research and Standard Development was bestowed on Prof. Matawal in recognition of his immense contributions in effectively piloting Road Safety/Road Transport Researches. Another feather is that the DG/CEO marked his birthday. In spite of his trying to make it low-keyed, friends and well wishers converged to celebrate not only his birthday but also his achievements. *NBRRRI Newsletter* was on hand to capture both events.

This edition of *NBRRRI Newsletter* is a bumper package that also features other events. These include the technical visit of the Adamawa State Commissioner for Trade and Industry to NBRRRI on the recently signed MoU with the Mubi Burnt Brick Ltd; the visit of the Nigerian Society of Engineers (NSE) Maitama Branch to NBRRRI Headquarters; the visit of the Metallurgical, Mining & Materials Division to NBRRRI; etc. As we wish our numerous readers Merry Christmas and Happy New Year, *NBRRRI Newsletter* invites you to enjoy the menu served in this tabloid

EDITOR

EDITORIAL TEAM

Director-General/CEO: Prof. D.S. Matawal
Editor: George N. Omange
Associate Editor 1: Daniel O. Makava
Associate Editor 11: Peter Mashem
 Oneshi Umocho
 Josephine Adeyemi
 Aminat Adekunle
 Yatasu Abdulsalam
 Blessed Ugbede
Photographer: Olotu Mohammed
Address: NBRRRI, Plot 449,
 Samuel Ogedengbe
 Crescent, Jabi,
 PMB 5065
 Wuse GPO, Abuja.
Ota Office: Km 10, Idiroko Road,
 PMB 1055 Ota,
 Ogun State
Website: www.nbrrri.gov.ng

All correspondence to the Director-General/Chief Executive

NBRRRI (VISION, MISSION & CORE VALUES)

BUILDING CAPACITY & SETTING THE PACE IN INDIGENOUS CONSTRUCTION TECHNOLOGY DEVELOPMENT

VISION

To evolve and use a comprehensive and integrated approach in appropriate technology development and transfer, sustainable 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 meeting global standards.

MISSION

Integrated R&D, capacity building and robust extension services in which technological 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
- Commitment and integrity
- Resourcefulness
- Innovativeness

CHIEF OGBONNAYA ONU APPOINTED AS NEW SCIENCE AND TECHNOLOGY MINISTER



*Honourable Minister of Science and Technology,
Chief Ogbonnaya Onu at a briefing*

Chief Ogbonnaya Onu has been appointed as the Minister of Science and Technology of the Federal Republic by His Excellency, President Muhammadu Buhari, GCFR. His appointment was formally announced after undergoing screening and confirmation by the Senate of the National Assembly.

Chief Onu, who is a Chemical Engineer and the first civilian Governor of Abia State, was sworn in on 11th November, 2015 along with other Ministers by Mr. President at a brief ceremony that took place at Presidential Villa, Abuja.

Born on December 1, 1951, to the family of His Royal Highness, Late Eze David Aba Onu, the Eze Adu of Uburu in Ohaozara Local Government Area of Ebonyi State in Nigeria, Onu attended Izzi High School, Abakaliki, Ebonyi State where he obtained Grade One with distinction in his West African School Certificate Examination. He also sat for the High School Examination at College of

Immaculate Conception (C.I.C) Enugu, and obtained distinctions in Physics and Chemistry, graduating as the best overall student.

After his secondary education, Onu attended the University of Lagos where he graduated in 1976 with a first class honours degree in

Chemical Engineering. He later obtained his Doctor of Philosophy degree in Chemical Engineering. Thereafter, Onu proceeded to the University of California, Berkeley, California, USA where he obtained his post graduate degree in 1980 after doing an extensive work on coal liquefaction and production of synthetic fuels under mild conditions.

While at the University of California, Berkeley, the new Science & Technology Minister was the President of the African Students Union; Member of the Graduate Assembly of the University of California at Berkeley and also President of the Nigerian Association of Northern California, Inc.

Soon after his graduation from the University, Ogbonnaya Onu became a teacher at St. Augustine's Seminary, Ezzamgbo, Ebonyi State. On completion of his doctoral studies in the USA, he became a lecturer at the University of Port

Harcourt and was the pioneer Head of the Department of Chemical Engineering. He later served as the Acting Dean of the University's Faculty of Engineering and was elected a Member of the Governing Council of the University.

Chief Onu was one of the Directors of the Nigeria Cement Company, Nigercem, Nkalagu, Ebonyi State. In 1991, Chief Ogonnaya Onu contested for and won election to become the first Governor of Abia State. He was the first Chairman, Conference of Nigerian elected Governors. Onu believes in Nigeria's unity and as the governor of Abia State, he abolished the State of Origin Syndrome and pioneered the appointment of non-indigenes of the State into top positions of responsibility in his Administration.

In 1999, Ogonnaya Onu was a Presidential aspirant under the umbrella of the All Peoples Party, APP, which later metamorphosed to become the All Nigeria Peoples Party, ANPP. As the National Chairman of the defunct ANPP, Chief Onu was instrumental in the merger of the then major opposition parties to form the All Progressives Congress (APC) which is now the ruling party.

Dr. Ogonnaya Onu is the author of many books, including: "A Footprint: Memoirs of a Chief Servant", "Building a Modern Nigeria" and "Technology and National Development".

He is married to Dr. (Mrs) Chinyere Onu and their marriage is blessed with children.

.....PLEDGES TO BE BEST MINISTER NIGERIA EVER PRODUCED

The Minister of Science and Technology, Chief Ogonnaya Onu, has pledged to strive to be the best minister in President Muhammadu Buhari's cabinet. He stated his resolve at a reception organised in his honour by Ebonyi State Indigenes, where he further pledged to work assiduously to emerge as the best minister Nigeria ever produced.

The honourable Minister stressed that no nation had ever attained greatness without Science and Technology. He noted that the U.S. is the greatest power in the world with the largest economy, the strongest military and has the highest diplomatic potential that she has used in the maintenance of peace all over the world. "But the U.S. was able, is able and will continue to do so, so long as it is leading in science and technology," the Minister noted.

Chief Onu said Nigeria has the potential not just to be one of the 20 leading economies, but one of the 10 leading economies; and emphasized that this cannot be achieved without science and technology. He recalled that about 23 years ago, he started the Technology Village Project in Abia, which unfortunately was disrupted as a result of military intervention.

Onu assured that Science and Technology can and will take Nigeria to a height unimagined and that the Ministry, under him, will do its best to be the critical instrument that Nigeria will use to get to that height. He further urged for prayers and support of all Nigerians for the Present Administration to succeed.

Dr. (Mrs.) Habiba Muda Lawal

FMST PERMANENT SECRETARY ASSUMES OFFICE



Dr. (Mrs.) Habiba Muda Lawal

Permanent secretary, Federal Ministry of Science & Tech.

Following the appointment of the former Permanent Secretary of FMST as the Head of Service of the Federation, Dr. (Mrs.) Habiba Muda Lawal was redeployed from the Ministry of Women Affairs to become the Permanent Secretary of the Federal Ministry of Science & Technology (FMST).

Born on June 3rd, 1963, Dr. Lawal is from Toro, Bauchi State. She attended Gyamzo Primary School, Toro, from 1970 to 1976; and the Federal Government College, Kaduna (1976 to 1981). She attended the Ahmadu Bello

University Zaria where she obtained her Bachelor of Science Degree in 1986 and Masters degree in 1989. In 1997, Dr. Lawal obtained her Doctorate degree from Abubakar Tafawa Balewa University (ATBU), Bauchi.

Prior to joining the Civil Service, Dr. Habiba worked as a Graduate Assistant ATBU and rose to become a Senior Lecturer. She also served, at different times, as Departmental Exam Officer, Project/Records Officer and Post Graduate Officer at the same University.

She was appointed Commissioner of Commerce and Industry in Bauchi State and later redeployed as Commissioner of Culture and Tourism.

She transferred her service to the Federal Civil Service and became Director of Planning Research and Statistics at the National Centre for Women Development, Abuja; and later became Director, Women Affairs Department in the Federal Ministry of Women Affairs, before she got appointed as a Permanent Secretary.

The new Permanent Secretary of Science & Technology is a Fellow of the Chemical Society of Nigeria; Fellow of the Leadership for Environment and Development (LEAD); Member of the Science Association of Nigeria; Member of the Institute of Development Administration; among others

FORMER PERMANENT SECRETARY (FMST) NOW HEAD OF SERVICE

His Excellency, the President of the Federal Republic of Nigeria and Commander-in-Chief of the Armed Forces of Nigeria, Muhammadu Buhari has appointed Mrs. Winifred Oyo-Ita as the Acting Head of the Civil Service of the Federation.

Until her appointment, Mrs. Oyo-Ita was the immediate past Permanent Secretary of the Federal Ministry of Science & Technology, where she distinguished herself creditably.

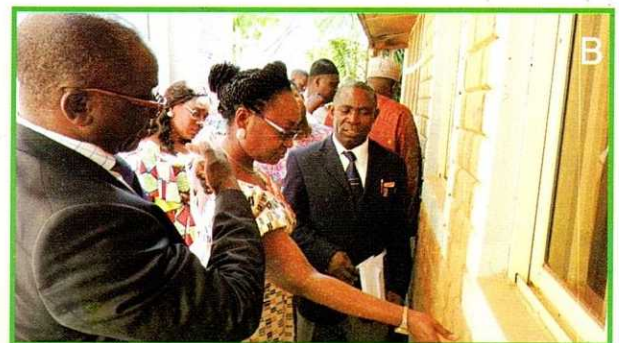


Mrs. Oyo-Ita, Head of Service

in several activities and programmes of NBRRI. Apart from official visit to NBRRI Administrative Headquarters, she was Special Guest of Honour at different NBRRI forums which included the International Conference on *Housing Summit* which was held between 2nd and 4th June 2014 in Abuja; the Inauguration of NBRRI Technical Advisory Committee; the Launch of the *2014 Road Safety Guidelines (RSG 2014)* held on 2nd September 2014 in Abuja; the NBRRI International Conference on Road Transportation in Nigeria held in Abuja from the 23rd – 25th June 2015.

During her brief sojourn as the then Permanent Secretary, FMST, Mrs. Oyo-Ita took keen interest in the activities of the Agencies under the aegis of the Ministry, especially the Nigerian Building and Road Research Institute (NBRRI). She played active roles

The New Head of Service granted an exclusive interview with the crew of the *NBRRI Newsletter* which was featured in the Vol. 2 No. 6 September Edition



The new Head of Civil Service of the Federation, Mrs. Oyo-Ita performing some official functions at NBRRI functions while she was the Permanent Secretary of the Federal Ministry of Science & Technology. (A): At the Inauguration of NBRRI Technical Advisory Committee; (B): At NBRRI Administrative Office admiring NBRRI Interlocking Blockwall; (C): At NBRRI Display Centre; (D): At NBRRI International Conference

IT IS TECHNOLOGY THAT WILL DRIVE NIGERIA'S ECONOMY

...Prof. Rafiu Ishola Salawu, President of Nigerian Academy of Engineering

Rafiu Isola Salawu is the 8th President of the Prestigious Nigerian Academy of Engineering. The 74-year old vibrant Professor of Electrical and Electronic Engineering has a very strong and cordial working relationship with the Nigerian Building and Road Research Institute, and has participated in many technology-based assignments and activities at NBRI since 2011. The highly respected academician is currently the Chairman of the NBRI Technical Advisory Committee. The erudite Professor recently granted an interview to the crew of NBRI Newsletter in Ota. In this very revealing interview, the erudite academician and engineer of note, bared his mind on several issues particularly bordering on the challenges of the engineering profession in Nigeria, the relevance of NBRI to the Engineering profession and national development, the impact of the Nigerian Academy of Engineering on national development, the role which Science, Technology and Innovations can play in national development, etc. Excerpts of the interview session are presented below....

NBRI NEWSLETTER: Sir, can you tell us about yourself and background?

PROF. SALAWU: I am Engr. (Professor) R. I. Salawu. I was born on the 7th February, 1939. I hold a B.Sc. (Engineering) from Kwame Nkrumah University of Science and Technology, Kumasi, Ghana in 1965, M.Sc. in Electronics and Telecommunications Engineering from Ahmadu Bello University Zaria and a PhD in Electrical Engineering from Birmingham University, England in 1974.



I worked briefly with the WNTV-WNBS between 1965 and 1966 in Ibadan as a pupil engineer before proceeding to Ahmadu Bello University in 1966. In January 1968, I joined the University of Lagos as an assistant lecturer and rose to the position of Professor in October 1983 where I retired 11 years ago in 2004. After my retirement, I worked as an associate at the International Center for Theoretical Physics in Turin, Italy; a visiting scientist at Concordia University in Montreal Canada; visiting Professor at Kyung Hee University in Seoul, South Korea; and

visiting Professor at the University of Botswana, Gaborone. I was appointed UNESCO visiting Professor of Electronics to prepare a new programme for the Electrical Engineering Department of the University of Liberia, Monrovia after the war in that country. I have been a Consultant to UNESCO, UNECA, OAU and the European Union. For some time, I was the Chairman of the OAU-Scientific, Technical and Research Commission-Committee on new, renewable and solar energies. For a period of five years, I served as the African representative on the American Association for the Advancement of Science Committee on Science and Technology for

“The Nigerian Academy of Engineering is made up of people who have served the country in various ways and have reached the highest level of engineering in whatever their field of specialization in engineering is. They just want to put their experiences and knowledge to use in the service of the country.”

Development. I am presently a Professor in Bells University of Technology, Ota, Ogun State. I became the President of Nigerian Academy of Engineers on June 19th 2014.

NBRI NEWSLETTER: Can you kindly tell us why you chose engineering as a profession?

PROF. SALAWU: It is a passion. From childhood, I used to play

“Also, the Academy is assiduously working on acquiring more grants to assist students and young graduates to be able to carry out research. We are hoping that this new government will see to our plight.”

with mechanical gadgets. I chose Electrical Engineering because I was nearly electrocuted then. I had a lecturer then, my Physics teacher in High school who motivated me to read electronics.

NBRRI NEWSLETTER: Can you tell us a bit about the Nigerian Academy of Engineers?

PROF. SALAWU: The Nigerian Academy of Engineering is made up of people who have served the country in various ways and have reached the highest level of engineering in whatever their field of specialization in engineering is. They just want to put their experiences and knowledge to use in the service of the country. There are very few people who are in such academies all over the world. In this country, we have about One Hundred and thirty (130) members in the Academy. So it is a privilege to be a member of the Academy. Also, whenever there is a critical engineering problem, it is expected to be referred to the Academy for solution. We have not reached that point yet in this country, because majority of our politicians do not know the value of engineers and the Academy.

In some countries, the Academy is set up by the government such in the United State, South Africa and Ghana when they found out that there is a need for it. In Nigeria it is set up by individuals and we are trying our best to get the attention of the government. As a matter of fact, it took us about five years to decide if we actually need the Academy. It was people like the senior engineers from the Nigerian Society of Engineers who actually debated for the formation of the Academy.

NBRRI NEWSLETTER: In coming together as individuals to form the Nigerian Academy of

Engineering, what were the objectives and the expected impacted on the Society

PROF. SALAWU: One of the primary objectives is to assist the Society in fast tracking the application of specialized fields of engineering for the technological development. It is to also to assist young engineers in their research activities. About five years ago, the National University Commission (NUC) came up with a rule that if you are teaching in the university, you must have a Ph.D degree. The Universities are producing Ph.D degree holders some of whom have whom have never travelled out of this country. What they are doing is 'inbreeding' i.e. This is when you get your first degree, second degree and Ph.D in the same University and you never travelled out to know what is happening outside your environment. So, the Academy is trying to expose such people to other Universities abroad for studies. This requires funding. We have been going round soliciting for funds. We got a reprieve recently AGRO Petrochemicals which provided Ten Million Naira (N10, 000,000.00) to enable the Academy assist such engineers to be get technical exposure outside the country. We are in the process of selecting two or three of them to benefit from this soft loan. They are teachers already in the Universities; and this makes it easier and better for more research.

NBRRI NEWSLETTER: As the President of the Nigerian Academy of Engineers, what are some of your achievements and challenges so far?

PROF. SALAWU: The achievement so far is the fellowship grant because it has never been done before. Also, the Academy is assiduously working on acquiring more grants to assist students and

“In addition to its R&D efforts, the Institute should continue to emphasize on research innovations uptake. The Institute should get entrepreneurs to key into and pick some of NBRRI innovations (equipment), increase local content in construction, apply them massively in the construction industry”

young graduates to be able to carry out research. We are hoping that this new government will see to our plight. Fortunately, one of us has been made a Minister. He is a fellow of the Academy and the Minister of Science and Technology. Our challenges are many but the major challenge is funds. What we do is to go round and solicit for support. Response is only positive from a very few individuals.

As I said earlier, we have received 10 million Naira from a Company as grant to assist young engineers for further studies and research. About two months ago (September), we visited the Governor of Ogun State who was excited after seeing our profile. He said he was impressed with the caliber of people in the Academy and pledged to tell his fellow governors about the NAE. He gave us 5 Million Naira. It is people like these we look up to. It is such accrued funds that are also used in running the Academy. Last year we spent about 50 Million Naira from the grants we got and we also task ourselves. The academy is more or less a humanitarian society, like an NGO made up acclaimed academicians and engineers that can be referred to as Senior citizens.

NBRII NEWSLETTER: Interesting! Since the Academy now has one of its members as a Minister of the Federal Republic, how would this impact on the Academy in the next five to ten years?

PROF. SALAWU: You see, the academy has a very bright future. All we need is for the government to recognize that they can use the Academy to address a lot of problems. Presently, what our governments (African Governments) generally do is look outside whenever there are engineering challenges to be tackled. But our emphasis and advocacy in the Academy is for Government to do

“Opportunities of engineering practice has been diminishing in this country over the years because the government has been looking outside instead of looking inwards”

“Presently, what our governments (African Governments) generally do is look outside whenever there are engineering challenges to be tackled. But our emphasis and advocacy in the Academy is for Government to do the exact opposite, i.e. look inwards for the solutions.”

the exact opposite, i.e. look inwards for the solutions. It is important to emphasize that the average age of members of the Academy is 70 years. They retirees who have accomplished themselves and are at pinnacle of their respective engineering disciplines. Their actions are therefore not driven by personal pecuniary gains but by the desire to use their wealth of experience to do things that will benefit the country. Unfortunately, our government is looking at the economy all the time unlike other countries that look at Science and Technology to drive the economy. Developed countries know that it is technology that drives the economy.

NBRII NEWSLETTER: Sir, has the Academy been in collaboration with the Federal Ministry of Science and Technology?

PROF. SALAWU: Yes we have been meeting with them. Some of the Directors-General (DGs) of the Research parastatals in Ministry of Science and Technology are fellows of the Academy. One of the things we are planning now is to have a meeting with all the DGs; I have spoken with them, like your DG (Professor Matawal) when we had a Conference last week; and many of the DGs were there. We want to look through their mandates of these research parastatal to identify areas of possible collaboration with them. For example, if people are doing research in an establishment like yours (NBRII), the Academy will be poised to provide a second opinion based on their wealth of experience which can impact on the quality of the research output and/or facilitate research uptake for the benefit of the nation's economy. When the National universities Commission (NUC) is embarking on accreditation exercise of Institutions, the Academy can provide

recommendations on the eligibility of some establishment like yours for accreditation. Actually we did something like that for NBRII a few years ago for the Ministry of Science and Technology.

NBRII NEWSLETTER: Sir, you earlier indicated that you had some relationship with NBRII. What can you say has been the impact of NBRII on the success of the Academy?

PROF. SALAWU: NBRII has supported the Nigerian Academy of Engineering. Not only that, NBRII has set up a Technical Advisory Committee which I chair to advice on research activities of NBRII. When Research officers and technical teams come out with research proposals, the Committee which is made up of experts from the Academy, the Universities and the Construction industry assesses the proposals in all its ramifications based on parameters that include adequacy of the technical content, relevance, appropriateness, funding profile, etc. of the research project or programme proposals; and offer their expert advice to the DG.

NBRII NEWSLETTER: Sir, do you see a lasting collaboration between NBRII and the Academy?

PROF. SALAWU: Yes. That is how it should be. NBRII is a research and development establishment. Also, one of the strong points of the Academy is that many of its members are experts in R&D activities and have great wealth of research capabilities. In fact, some of the former DGs including the founding DG of NBRII, Dr. Anthony Madedor, the former DG of Raw Materials Research Development Council (RMRDC), the former DG of National Office for Technology Adaptation and Promotion (NOTAP), and many others are members of the Academy.

NBRII NEWSLETTER: Sir, what advice can you give

on the roles NBRII should play towards the development of Nigeria?

PROF. SALAWU: Indeed, NBRII has done a lot especially in developing technological innovations in the Building and Road industry. In addition to its R&D efforts, the Institute should continue to emphasize on research innovations uptake. The Institute should get entrepreneurs to key into and pick some of NBRII innovations (equipment), increase local content in construction, apply them massively in the construction industry and hence

use them for the development of the country. For example, NBRII could sell the franchise or idea of the Interlocking Block making Machine to business entrepreneurs who will now mass produce the machines for use in the construction industry. In other words, instead of NBRII waiting for or seeking government sponsorship for the production of the equipment (innovations), the Institute should identify appropriate entrepreneurs and market the innovations (equipment) such that it could be taken up by the entrepreneurs for mass production in order to satisfy the needs of the construction industry.

This will prevent the entrepreneurs going for importation of similar variants of the Machine, thereby reducing foreign capital flight while increasing local content capacity. NBRII will have the patent right of designing the equipment. Through this, NBRII will generate more funds to research and design more equipment for the economy. I must say that the current DG/CEO of NBRII is doing a lot to improve the profile and relevance of the Institute to the construction industry, because the Institute is engaging in more researches now than in previous years

NBRII NEWSLETTER: Sir, what are your views about the engineering profession in Nigeria?

“NBRII has supported the Nigerian Academy of Engineering. Not only that, NBRII has set up a Technical Advisory Committee which I chair to advice on research activities of NBRII. When Research officers and technical teams come out with research proposals, the Committee which is made up of experts from the Academy, the Universities and the Construction industry assesses the proposals in all its ramifications based on parameters that include adequacy of the technical content, relevance, appropriateness, funding profile, etc. of the research project or programme proposals; and offer their expert advice to the DG”

PROF. SALAWU:

Opportunities of engineering practice has been diminishing in this country over the years because the government has been looking outside instead of looking inwards. We have many competent Nigerian construction companies, but our government is not patronizing them and as such, many of them have folded up. If all tiers of Government start patronizing these companies, encouraging and giving them the enabling environment by looking inward, then the engineering profession in Nigeria will be developed. I recall that during Babangida regime, I was the Registrar of COREN. At that time, we established what we called SITS- Supervised Industrial Training for engineering graduates. Under this scheme, as soon as an engineering student graduates, he or she undergoes a programme of training for a period of two years before they get registered as COREN members. During that period, we had more of Nigerian Engineering Companies to whom we were sending these engineering students to go for these training. But now, most of these companies have gone under because Governments were not been giving jobs to them. So we don't have places to send these students to for training anymore.

NBRI NEWSLETTER: As an academician, what are your views about the teaching of engineering in Nigerian Universities as it affects professionalism?

PROF. SALAWU: The practical experience of engineering students in all fields of engineering has gone down. One of the major causes is the dearth of state-of-the-Art equipment. It will interest you to know that in many

cases, equipment acquired 50 years ago in many Institutions for teaching is what we are still using till date. Again, we should realize that 40 or 50

“....I was the Registrar of COREN. At that time, we established what we called SITS- Supervised Industrial Training for engineering graduates. Under this scheme, as soon as an engineering student graduates, he or she undergoes a programme of training for a period of two years before they get registered as COREN members.”

years ago, we had fewer students but now the population of the students has increased drastically without commensurate increase in teaching facilities. Also, the NUC has its own role in this. Years back, the NUC said that the amount of time used in practical training should be reduced. The number of practical sessions I did in one year during my University days is more

than the number of practical sessions being done now for four years!

NBRI NEWSLETTER: Sir based on your experience as an engineer and a fellow of the Nigerian Academy of Engineering, what are your views about the relationship between the government and engineers towards project execution?

PROF. SALAWU: Over the years, engineers have had a lot of meetings and conferences. In each conference, typical challenges in the engineering fields and nation building have been x-rayed, solutions proffered, communiqué issued and sent to Government for consideration of expert advice. This has been the scenario since 1958. What follows after this is critical because it is left for Government to decide on whether to consider and adopt recommendations made or to jettison it.

“The practical experience of engineering students in all fields of engineering has gone down. One of the major causes is the dearth of state-of-the-Art equipment.... equipment acquired 50 years ago in many Institutions for teaching is what we are still using till date. Again, we should realize that 40 or 50 years ago, we had fewer students....”

NBRI NEWSLETTER: Sir, if since 1958 the Nigerian Society of Engineers has been issuing these recommendations to the government and they do nothing about it, is there no way the NSE can force the hands of the government to look into these recommendations?

PROF. SALAWU: There is no way you can force the hands of the government to do something it is not

prepared to do, especially in this kind of matter. Expert advice is proffered on solving critical

national engineering challenge. The least that could be done is to dialogue the professional and regulatory bodies in order to forge a way forward that will benefit the engineering profession in particular and the country at large.

NBRRI NEWSLETTER: Can we say that our priorities have been misplaced in Nigeria when it comes to the engineering profession?

PROF. SALAWU: Yes, we could say that. Again we can say that our engineers are not participating enough in Nigerian politics. They are therefore not particularly well placed in positions of decision making on a national scale, especially in the field of engineering. My advice is that more engineers should get involved in the business of politics, especially those who have flair for it. This will help put the engineering profession in Nigeria in proper perspectives that will empower engineers enough to attract the confidence of Government. This will no doubt encourage Government to look inwards for solutions to engineering issues and challenges in the country.

NBRRI NEWSLETTER: How do you envision the future of engineering globally?

PROF. SALAWU: Globally; I will say that engineering is developing. It is the bedrock of the society. Like in US, through adequate commitment to the policy of uptake of research outputs, oil is now being squeezed out of sand. In Nigeria, we lack that enabling environment from the government. Have you

“In Nigeria, we lack that enabling environment from the government. Have you asked yourself why none of Nigerian graduates fail whenever they go abroad? The problem we have here is the enabling environment and commitment to the implementation of appropriate policies.”

asked yourself why none of Nigerian graduates fail whenever they go abroad? The problem we have here is the enabling environment and commitment to the implementation of appropriate policies.

NBRRI NEWSLETTER: Sir, what are your expectations from the newly appointed Minister of Science and

Technology?

PROF. SALAWU: I hope he will bring us closer to the government because he is an engineer, a fellow of the Academy; and he has been with Buhari for long.

NBRRI NEWSLETTER: What of the Minister of Power, Works and Housing?

PROF. SALAWU: I know he is an open-minded person. He has demonstrated it to me when he gave me back my plot of land that was seized from me before he became governor. He has demonstrated his worth in Lagos State; and if he

has sincere people working with him and gets the right information, he will do something positive for this nation.

NBRRI NEWSLETTER: As an Academician, a Professor, a father and a family man, how do you manage the coordination of these responsibilities; and how do you relax at the end of each day?

PROF. SALAWU: I used to play games before. But these days, I jog mainly in my estate where I live. I jog in the evenings for like two kilometers and then I sleep for like three or four hours.

“Again we can say that our engineers are not participating enough in Nigerian politics. They are therefore not particularly well placed in positions of decision making on a national scale, especially in the field of engineering. My advice is that more engineers should get involved in the business of politics, especially those who have flair for it. This will help put the engineering profession in Nigeria in proper perspectives that will empower engineers enough to attract the confidence of Government”

METALLURGICAL, MINING & MATERIALS DIVISION OF NSE VISITS NBRRI



DG/CEO NBRRI, Professor Danladi Slim Matawal (R) presenting some NBRRI publications to the National Chairman of MMM Division of NSE, Engr. Fridy Apeh

Engr. Apeh disclosed that a new EXCO of the Division came on board during its Annual General Meeting (AGM) on the 12th April, 2015; and that in line with its tradition, the new EXCO had to embark on formal visits to pay tradition homage to key Stakeholder organizations, of which NBRRI is one. Engr. Apeh noted that NBRRI has

The Metallurgical, Mining and Materials (MMM) Division of the Nigerian Society of Engineers (NSE) has asked for the continuous support of the Nigerian Building and Road Research Institute (NBRRI) to enable the Division achieve its mandate. This request was made by the National Chairman of the MMM Division, Engr. Friday Apeh during a courtesy visit by a delegation of the Division to NBRRI Administrative Headquarters in Abuja.

been kind in providing Office space to the Division at its Lagos Zonal Office in Ikoyi, where the Division operates from. While expressing his gratitude for this gesture from NBRRI on behalf of the MMM Division, Engr. Apeh indicated that the Division has been closely following events at NBRRI and the good works of the Director-General, Professor D. S. Matawal. He further seized the opportunity to



Group photograph of NBRRI Management Staff with visiting Members of the MMM Division of the Nigerian Society of Engineers

congratulate Prof. Matawal on his reappointment for a second tenure as the DG/CEO, NBRI, and prayed for more wisdom to enable him pilot the affairs of the Institute to greater heights in the next four years.

During his briefing, Engr. Apeh said the MMM Division is one of the Divisions under the umbrella of the Nigerian Society of Engineers, which was set up to cater for professional engineering graduates in metallurgy, mining and materials and related disciplines, such as, foundry engineering, ceramics engineering, polymer engineering, etc., in Nigeria. According to him, the professional development, growth and activities of the Division cover career guidance and counseling, publications, annual conferences, workshops, consulting, public seminars by distinguished professionals and interactions with other similar professionals and professional organizations across the globe and consulting services.

While noting that the activities of the Division are very vital to the development of the engineering sub-sectors in Nigeria, Engr. Apeh provided an overview of the Mission and Vision of the MMM Division to include the following:

- To be the leading light and force of propulsion in all aspects of engineering materials development and application in Nigeria'
- To continuously develop members' professional competence to rank among the best in the globe'
- To establish Codes and Standards for professional practice in line with global best-practices and develop local engineering materials for national technological and economic development.

The National Chairman revealed that the Division had in the past been able to organize conferences, workshops, seminars, professional training, etc., with the support and collaborations with individuals and stakeholders; adding that the last conference organized by the Division was held in Abuja in July, 2015 on the theme: "Materials for Sustainable Development in the Automobile Industries in the Context of the Nigeria Industrial Revolution Plan."

Apeh used the occasion to request for more spaces at the NBRI Lagos Zonal Office for its Laboratory Services, as the Division recently acquired some laboratories equipment that can be used in Construction and Metallurgical Materials Testing.

Responding, the DG NBRI, Professor D.S Matawal thanked the Exco of the Division for the visit and congratulated them on their election. He further thanked the Division for choosing Engr. Apeh, who is a Management staff of NBRI as its National Chairman. He noted that the relationship between NBRI and the MMM Division has been very cordial and has resulted to the Institute allowing the Division to site its operational office at NBRI House, Ikoyi, Lagos. He further assured the visiting delegation of NBRI continuous support to enable the Division succeeds. On the request for collaboration and providing more office space for its laboratory activities, the DG said it is a welcome development adding that such partnership will benefit both organisations.

The NBRI DG wished the Exco success as they strive to move the MMM Division forward.

MATAWAL BAGS INTERNATIONAL ROAD FEDERATION AWARD



The IRF Awardee, Prof. D. S. Matawal and his wife (5th and 6th from L) flanked by some Management Staff of NBRRI

The International Road Federation based in Zurich Switzerland has bestowed the 2015 IRF Award for Excellence in Road Research and Standard Development on the Director-General/CEO of NBRRI, Professor Danladi Slim Matawal. The Award was in recognition of the contributions of erudite Professor in effectively piloting Road Safety/Road Transport researches and programmes in NBRRI with direct impact on the Nigerian community; organizing an International Conference on Roadmap to Safe, Efficient and Sustainable Road Transportation in Nigeria; and galvanizing key stakeholders in the Road Transport sector for greater performance.

The Award presentation took place on the 21st November, 2015 at the Banquet Hall of the Women Development Center Abuja. Justifying why Prof. Matawal was selected for the Award, the IRF affiliate in Nigeria, the Road Accident Prevention Network

Center (RAPNEC) said it was based on the positive approach of the NBRRI DG in using research to address road safety and transportation issues.

Professor Matawal received his Award Certificate and Plaque along with his lovely wife, Mrs. Rose Matawal to the admiration of several Management and staff of NBRRI who graced the occasion.

Responding after the Award, Prof. Matawal pledged for more partnership with IRF and other stakeholders towards ensuring improved safety on the roads.

Before the award ceremony, there was a Panel of discussion on Road Safety Culture in Nigeria with the Prof. Matawal as the lead panelist. In his submission, Matawal stressed on the need for the effective application of 3Es (Education, Enforcement and Engineering) to ensure a wholistic road safety on Nigerian roads.



Prof. Matawal stressing a point during the pre-Award Panel of discussion on Road Safety Culture



Prof. D. S. Matawal (L) receiving his Award and Plaque. At the centre is Mrs. Rose Matawal, wife of NBRRI DG/CEO

NSE MAITAMA BRANCH TOURS NBRII HQTRS



NSE Maitama Branch Exco pose for a photo with the DG and other Management Staff of NBRII

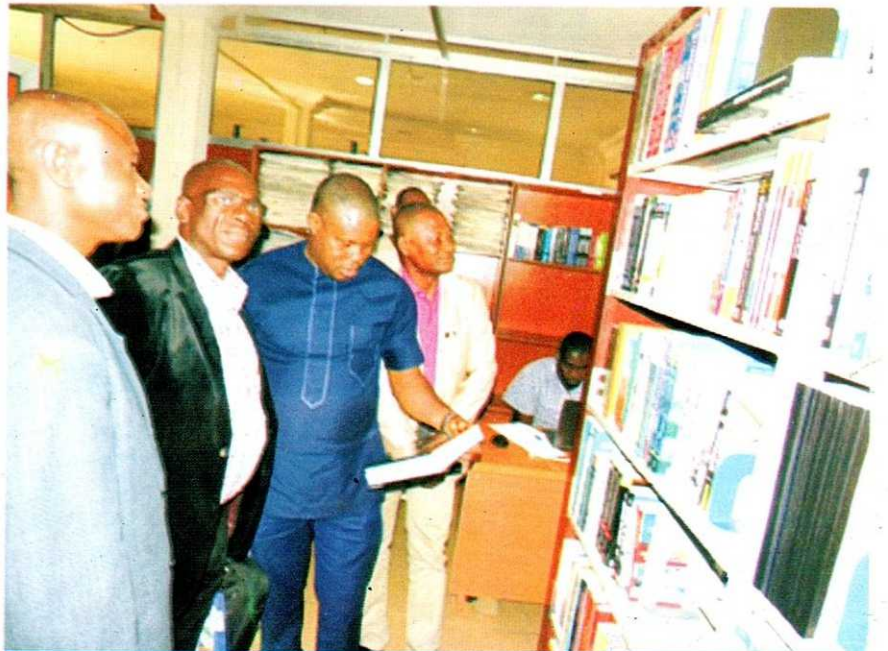
The Executive officers of the Nigerian Society of Engineers (NSE) Maitama Branch, Abuja paid a courtesy call to the Nigerian Building and Road Research Institute, NBRII, Administrative Headquarters, Abuja. The mission was to discuss collaboration with the Director-General/CEO of the Institute, Professor Danladi Matawal as well as interact with NBRII Research officers and tour NBRII facilities' within the Administrative Headquarters in Abuja.

Speaking during the courtesy visit, the Chairman of the NSE, Maitama Branch, Engr. Abraham Israel thanked the DG/CEO and his Management team for accepting their request to visit; and appreciated the efforts of NBRII in promoting research in the field of engineering.

Engr. Israel said that the Maitama Branch of NSE is concerned about several issues in the construction industry which informed their decision to engage and interact with stakeholders such as NBRII with a view to getting answers or

working together to find solutions. Among some of the issues raised were Phenomenon of Building Collapse and Road pavement failure in Nigeria. They also wanted to know if NBRII has a robust relationship with the national body of the Nigerian Society of Engineers and other stakeholders in the construction sector.

The Chairman commended NBRII for its numerous research publications which he says have further



NSE Maitama team on a tour of the Library within the NBRII Administrative Office

Continued on page 19

ADAMAWA STATE GOVERNMENT SEEKS NBRRI INTERVENTION TO REVIVE MUBI BRICK FACTORY



(L to R) DG/CEO NBRRI, Prof. Matawal discussing with the Adamawa State Commissioner of Trade and Commerce, Umar Daware and his Permanent Secretary

The Adamawa State Government (ADSG) under the leadership of Governor Jibrilla Bindow is seeking the expertise of the Nigerian Building and Road Research Institute to revive the moribund Mubi Burnt Brick Factory.

The Adamawa Government made this known through its State Commissioner of Trade and Commerce, Umar Daware who led a delegation on

a courtesy visit to the DG/CEO NBRRI Professor Danladi Matawal at NBRRI Administrative Headquarters, Abuja.

Speaking further, the Commissioner said one primary area of focus of the new Administration in Adamawa State is the development of infrastructure and creation jobs for its teeming youth. Daware added that part of the strategy towards achieving this goal is to revive moribund



The Delegation showing the DG NBRRI pictures of the Mubi Burnt Brick Industries

industries in the State such as the Mubi Burnt Brick factory. The Commissioner noted that he was aware of the Memorandum of Understanding (MoU) recently signed between the Adamawa State Government and NBRRI; and that the visit of the delegation to NBRRI is to further demonstrate their resolve towards actualizing the agreement.

Daware said the Mubi factory needs a lot fine tuning to enable it produce

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Continued from page 17

deepened Engineering knowledge in Nigeria via quality research. He also praised the DG for achieving so much during his first tenure and wished him more success in his second term in office.

Responding, the DG NBRII, Prof. Matawal thanked the Chairman, Mataima Branch of the NSE and his Team for the visit and congratulated the Exco on their election into office. He noted that the Institute has a very cordial working relationship with the National Society of Engineers, as NBRII has been participating in all activities of the Engineering body. He also mentioned that the NSE has been represented in several technical activities of NBRII.

Responding to the issues raised, Prof. Matawal reiterated that since 2012, NBRII has intervened in the incessant incidences of building collapses in Nigeria; and that the intervention has led to a significant drop in cases of building collapse recorded between 2012 to date.

The DG also mentioned the efforts of the Institute in developing a curriculum for Artisans and

Craftsmen so as to improve their work quality on Building sites, and thereby checkmate the challenge of Quackery in the construction industry.

On Road Pavement failure, Prof. Matawal said NBRII convened an International Conference in 2013 where the challenge of Road Pavement failure in Nigeria was put on the front burner before all Stakeholders with a robust Communiqué was released. In addition, NBRII intervened by conducting failure investigations on some strategic roads in Nigeria.

He disclosed further that NBRII is on the verge of completing its Pozzolana cement pilot plant in Ota; and that NBRII is engaging young and vibrant research officers.

Matawal pledged to attend one of the meetings of the Maitama Branch so as to further interact with the members. The Exco later went on a facility tour of NBRII Materials Testing Laboratory, the Library, the Display Centre, etc. all located within the premises of NBRII Administrative Office in Abuja.

Continued from page 18

optimally and he believes that NBRII has the resources to get the factory up and running again.

Also speaking, a member of the delegation, Ibrahim Yasha'u said the MoU signed between the Mubi Burnt Brick Industry and NBRII also covered capacity building. Yasha'u, who is the General Manager of the Brick Industry, reiterated that the collaboration with NBRII will enable the Adamawa State Government build infrastructures like shelter for Internally Displaced Persons (IDP), Mass Housing Projects, Modern Township markets as well as Labour-based access roads across the State.

Responding, the Director-General/CEO of NBRII, Professor Danladi Matawal, thanked the ADSSG delegation for the visit saying he has a long and memorable relationship with several personalities from Adamawa State.

Matawal said the Institute signed the MoU with the Mubi Industry because of the objectives of the mission which is in line with the vision of the Institute, which included enhancing job creation, wealth generation and poverty reduction. He assured that Delegation that NBRII will fulfill its part of the agreement and ensure that the Brick Industry is back to full capacity production.

To fast track the collaboration, it was agreed that NBRII send some of its Technical staff to Mubi and conduct an assessment of the machines in the factory and proffer solutions.

The highpoint of the visit was the presentation of some NBRII publications by the DG to the Adamawa State Government.

DG NBRRI, PROFESSOR MATAWAL MARKS HIS BIRTHDAY



erudite Professor of Civil Engineering. They spoke glowingly about his commitment and dedication to work.

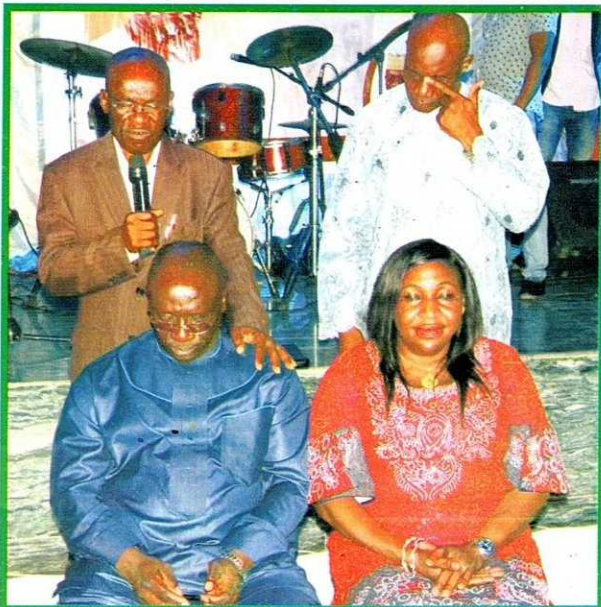
Responding, the celebrant Prof. Matawal thanked everyone for honoring him with their presence at the event and for those who organized it. He attributed his being alive to witness the day to God Almighty and pledged to continue to serve humanity.

It was a special day on the 30th of October, 2015 as the Director-General and CEO of the Nigerian Building and Road Research Institute Professor Danladi Matawal celebrated his Birthday. To mark the day, the immediate family members and friends of Professor Matawal organized a reception in his honor.

Several speakers at the reception recounted experiences they had with the goal-getter and

The climax of the occasion was the cutting of cake by Prof. Matawal assisted by his wife, Mrs. Rose Matawal.

Professor was born in Bokkos, Plateau State. All through his educational pursuit, Matawal excelled and this culminated in his appointment as a Professor of Civil Engineering in 1999. He was appointed the DG/CEO of NBRRI in 2011 and was reappointed for a second tenure in 2015.



Clergymen praying for the Celebrant and his wife



The celebrant cutting the Birthday cake with his wife, Mrs. Rose Matawal



The celebrant giving a vote of thanks



Prof. Matawal receiving a gift from his close friends from Bauchi: Former NASS Member (Hon. Seth Kadife) & Hon. Justice B.G. Sanga (Court of Appeal P/H)



Former VC, ATBU, Prof. Hamisu Muhammad speaking at the occasion



Mrs. Hajara Nji, Primary schoolmate of the celebrant & Former Commissioner,



Guests at the occasion

KEFFI SET 24 VISIT NBRI DG

Members of the Keffi Old Boys Association Set 24 were in the house of the Director-General of the Nigerian Building and Road Research Institute, NBRI, Prof. Danladi Matawal on a courtesy call. The set 24 members, who graduated from the famous Government College Keffi in 1976 were at the DG's house as part of pre-activities before their Annual General Meeting for 2015.

Speaking during the visit, leader of the Set 24 said the Delegation came to celebrate with thier revered senior, Prof. Matawal, who finished from Keffi in 1973, and to wish him well.

The Chairman of the Set said they are proud of Prof. Matawal for his numerous achievements, especially

while as DG/CEO of NBRI, adding that it has further uplifted the glory of Government College, Keffi. The set wished him more successes in his present and future assignments.

Responding, Prof. Matawal said he was deeply humbled with the visit and happy to see members of the Set succeeding in their various fields of endeavor. He noted that the visit is a proof that Old students of Government College Keffi still care for each other, irrespective of the year of graduation.

Matawal urged the Delegation to continue to shine and excel in whatever responsibility they undertake.

The visit ended with a prayer for the DG and Nigeria as well as singing of the Keffi Anthem by the Old Students.



Some Keffi Set 24 members chatting with Prof. Matawal



Keffi set 24 posing for a photo with Prof. Matawal

BUILDING MATERIALS PRICE INDEX ACROSS MAJOR CITIES IN NIGERIA FOR THE THIRD QUARTER (JULY-SEPT) IN THE YEAR 2015

The Building Materials price index based on surveys carried out by NBRI in six States of the Federation across the six geo-political zones of Nigeria in the third quarter of 2015 (July-Sept 2015) are presented in the Table below

SN	MATERIALS/DESCRIPTION	UNIT	LAGOS STATE =N=	KANO STATE =N=	PLATEAU STATE =N=	AKWA-IBOM STATE N	GOMBE STATE =N=	OGUN STATE =N=	ANAMBRA STATE =N=	AVERAGE PRICE =N=
A	WALLING:- BLOCK AND BRICK									
A1	Vibrated concrete block, 450x225x225mm	No	170	130	130	170	120	150	150	146
A2	Vibrated concrete block, 450x150x225mm	No	150	120	120	150	100	130	130	129
A3	Unvibrated concrete block, 450x225x225mm	No	130	90	110	160	90	120	120	117
A4	Unvibrated concrete block, 450x150x225mm	No	110	70	100	150	70	100	110	101
A5	NBRI laterite cement stabilized block; 240x230x113mm	No	90	80	80	80	100	90	80	86
A6	NBRI laterite cement stabilized block; .50x230x113mm	No	45	48	40	40	50	45	40	43
B	ROOFING SHEET/COVERING									
B1	0.45mm thick coloured long span aluminium	Meter	1,100	1,200	1,100	1,250	950	1,000	950	1,079
B2	0.55mm thick coloured long span aluminium	Meter	1,350	1,300	1,350		1,150	1,250	1,250	1,275
B3	0.7mm thick coloured long span aluminium	Meter	1,800	1,800	1,800		1,700	1,600	1,650	1,725
B4	0.45mm thick white long span aluminium	Meter	950	1,050	1,000		850	850	880	930
B5	0.55mm thick white long span aluminium	Meter	1,200	1,100	1,250	1,150	1,050	1,100	1,150	1,143
B6	0.70mm thick white long span aluminium	Meter	1,600	1,800	1,500		1,650	1,400	1,600	1,592
B7	Ngerite asbestor 1800x600x5mm	pcs	850	780	850	850		800		826
B8	Corrugated Zinc 1800x600x4mm (20 pcs)	Bundle	12,000	10,000	9,000	11,000	9,000	11,000	12,500	10,643
C	ROOF STRUCTURE: Hardwood - (Itara/Afara)									
	(50x50x3600)mm (2"x2"x12f)	length	320	250	200	250	220	230	200	239
	(50x75x3600)mm (2"x3"x12f)	length	420	350	300	300	320	330	250	324
	(50x100x3600)mm (2"x4"x12f)	length	600	450	450	500	440	430	400	467
	(50x150x3600)mm (2"x6"x12f)	length	900	650	550	900	650	750	750	736
	(75x100x3600)mm (3"x4"x12)	length	900	650	550	900	650	750	750	736
	(25x300x3600)mm (1"x12"x12f) -Unplain	length	1,400	1,300	1,500	1,500	1,300	1,300	1,400	1,386
	(25x300x3600)mm (1"x12"x12f) -plain	length	1,700	1,600	1,800	1,800	1,600	1,600	1,600	1671
D	ACCESSORIES (NAILS)									
D1	Ordinary nails									
	25mm(1")	Bag	6,000	6,000		7,500	7,500	6,000	4,700	6,283
	37.5mm(1.5")	Bag	6,000	5,700	4,800	7,500	6,500	6,000	4,700	5886

BUILDING MATERIALS PRICE INDEX (Continued)

	50mm(2")	Bag	6,000	5,600	4,800	5,800	4,700	6,000	4,500	5,343
	75mm(3")	Bag	5,000	5,000	4,100	5,800	4,700	5,000	4,500	4,871
	100mm(4")	Bag	5,000	5,000	4,100	6,200	4,700	4,800	4,500	4,900
	125mm(5")	Bag	5,000	5,000	4,100	6,200	4,700	4,800	4,700	4,929
F	AGGREGATES									
F1	Sharp sand (15 Tonne tipper load)	Trip	60000	44000	34000		48000	55000	42000	47,167
F2	Sharp soft (15 Tonne tipper load)	Trip	45000	40000	30000		46000	40000	34000	39,167
F3	Washed gravel (15 Tonne tipper load)	Trip	70000	66000	40000	48000	60000	50000	70000	57,714
F4	Unwashed gravel (15T tipper load)	Trip	55000	44000	40000	45000	50000	45000	60000	48,429
F5	1/2" granite (30 Tonne Tipper load)	Trip	140000	105000	160000	160000	120000	130000	180000	142,143
F6	3/4" granite (30 Tonne Tipper load)	Trip	140000	105000	160000	160000	120000	130000	180000	142,143
G	BINDERS									
G1	Dangote Cement (50kg)	Bag	1800	1900	1900	1900	1550	1700	1900	1,807
G2	Elephant Cement (50kg)	Bag	1800					1650	1900	1,733
G3	lafarge Cement (50kg)	Bag	1800		1850		1550	1650	1900	1,750
G4	Ashaka Cement (50kg)	Bag		1950	1900		1550			1800
G5	Sokoto Cement (50kg)	Bag		2100						2,100
G6	ibeto Cement (50kg)	Bag			2200		2000		1800	2,000
H	REINFORCEMENT: High yield bar									
H1	32mm diameter HY (13 pcs/Ton)	Ton	143000	156000				140000		144,333
H2	25mm diameter HY (21 pcs/Ton)	Ton	135000	115000	129000		136500	130000	128000	128,917
H3	20mm diameter HY (33pcs/Ton)	Ton	130000	115000	125000		132000	130000	116000	124,667
H4	16mm diameter HY (52 pcs/Ton)	Ton	115000	115000	125400	118800	119600	110000	111800	116,514
H5	12mm diameter HY (93 pcs/Ton)	Ton	115000	105000	114400	115000	120900	110000	111600	113,129
H6	10mm diameter HY (133 pcs/Ton)	Ton	125000	110000	102300	137000	133000	115000	119700	120,286
H7	8mm diameter HY (133 pcs/Ton)	Ton	105000	120000	99750	165000	106400	105000	86450	112,514
J	STORAGE TANK									
J1	500	Litre	11000	9000	12000		9500	10000	13000	10,750
J2	1000	Litre	17000	15000	17000	17000	14000	16000	17000	16,143
J3	2000	Litre	23000	25000	27000	28000	24000	22500	24000	24,786
J4	3000	Litre	33000	31000	31000	36000	30000	31000	34000	32,286
J5	4000	Litre	45000	48000	41000	52000	47000	45000	45000	46,143
J6	5000	litre	50000	51000	51000	68000	65000	50000	65000	57,143
K	ELECTRICAL INSTALLATION									
K7	1.0mm single core cable	Roll	3000	2100	2300	2300	2700	2800	3500	2,671
K8	1.5mm single core cable	Roll	3800	3100	3300	3500	3500	3500	3500	3,457
K9	2.5mm single core cable	Roll	6000	6200	5250	6500	5800	5800	5500	5,864
K10	4.0mm single core cable	Roll	10000	12000	8000	10800	9500	9900	8000	9,743
K11	6.0mm single core cable	Roll	16000	15000	15000	18000	14000	15700	15700	15,617

Survey by NBRI, 2015

STAFF PROMOTION

SN	NAME	NEW RANK	STATION
1	APEH, FRIDAY ICHIFU	Chief Research Officer.	EMRD NLC,OTA
2	EMORE, ROSEMARY AHWOJORO	Chief Admin Officer	A/F Abuja
3	ALI, DOMI	Chief Admin Officer	A/F Ota
4	TEJUMADE, OLUFEMI	Chief Admin Officer	A/F Abuja
5	UMAR, SAIDU MUHAMMED	Chief Stores Officer	A/F Abuja
6	LAWAL, RAZAQ BABATUNDE	Chief Engineer	EMRD NLC,Ota
7	OSHODI, OLUGBENGA RAHMAN	Chief Technical Officer	BRD Ota
8	OBIDOZIE, NDIDI VIRGINIA	Chief Extension Officer	CES Abuja
9	UMOCHE THOMAS	Chief Architect	CES Nnewi
10	ETUK, ENEFIOK IMOH	Chief Technical Officer	RRD Uyo
11	IRUOBE, ONYENACHI(MRS)	Chief Stores Officer	A/F Ota
12	AMOS TABE	Assistant Chief Admin Officer	A/F Abuja
13	HARUNA, DANJUMA ISRAEL	Assistant Chief Computer Analyst	PIT, NLC Ota
14	DANIELS, ANDREA OJOCHOGU	Assistant Chief Admin Officer	A/F Abuja
15	MASHEM PETER	Assist Chief Information Officer	PIT Abuja
16	NWASHA, MADUWUBA JOSEPH	Assistant Chief Accountant	F/A Abuja
17	OJO, EMESO BECKLEY	Principal Research Officer	RRD, Abuja
18	OKPANACHI, JOHN ADAJI	Principal Technical Officer	CES Abuja
19	ENEBI, STEPHEN	Principal Technical Officer	EMRD NLC,Ota
20	YAKUBU, AISHA	Principal Information Officer	PIT Abuja
21	DIKA SUNDAY MUSA	Principal Accountant	A/F Abuja
22	JOMBO, PERPETUA NDIDIAMAKA	Principal Confidential Secretary I	A/F Ota
23	MATON, JOHN DAFANG	Senior Research Officer	BRD Abuja
24	AKINMADE DANIEL	Senior Research Officer	RRD Abuja
25	DANJUMA, GOLESH ABEL	Senior Research Officer	BRD Abuja
26	DIDEL, MABILONG JULIET	Senior Research Officer	BRD Abuja
27	CINFWAT, KISHANG ZAKKA	Senior Research Officer	BRD Abuja
28	NDEM TIMMAN	Senior Research Officer	RRD Abuja
29	AGBO-ENECHÉ, UCHEBUAKWA	Principal estate officer II	Proc NLC, Ota
30	IGBIELE, SYLVESTER NDUBUISI	Principal Executive Officer	A/P Nnewi
31	SULAIMAN OLADIMEJI	Senior Statistical Officer	PIT NLC, Ota
32	CHUKWURAH, NNAMDI	Senior Librarian	PIT NLC Ota
33	UMOCHE ONESHI	Senior Information Officer	PIT, Abuja
34	ADENIYI,MICHAEL DADA	Principal work superintendent II	RRD, Ota
35	QUADIRI HABEEB A.	Senior Research Officer	RRD,NLC, Ota
36	ADAMU, YAKUBU	Senior Builder	CES Abuja
37	TSAMIYA, SANI IBRAHIM	Senior Engineer	CES Abuja
38	DOKUNMU, ADEBIMPE MAYOKUN	Senior Planning Officer	PIT Ota
39	MOHAMMED ABDULJAFAR LAFIA	Senior Statistician	PIT Abuja
40	BABATUNDE ADEMOSU OLADAPO	Senior Computer Analyst	PIT NLC, Ota
41	EDOM ATOMEN	Senior Research Officer	BRD Ota
42	APEH, SOLOMON ENEBI	Senior Research Officer	EMRD NLC, Ota
43	OGUNRO AYODELE STEVEN	Senior Research Officer	EMRD NLC, Ota
44	NWANDE OCEAN	Research Officer I	BRD, Abuja
45	ABUBAKAR MUSA YOLA	Research Officer I	BRD, Abuja
46	ISAH ADAMU KATAGUM	Research Officer I	RRD, Abuja
47	ABUBAKAR BABA YERIMA	Research Officer I	BRD, Gombe
48	MOYI MUHAMMED ZAYYANU	Research Officer I	BRD, Kano
49	INYEKAM ELSIE BOGOFANYO	Research Officer I	RRD, NLC,Ota
50	YAHAYA SHAKIRUDEEN	Research Officer I	EMRD, NLC,Ota
51	FABIYI, MUSTAPHA OLAWALE	Research Officer I	EMRD, NLC,Ota
52	IMONIKOSAYE, OGHENERUKEVWE	Senior Technical Officer	BRD, NLC,Ota
53	OLAIFA KAYODE ADEBUNMI	Senior Confidential Secretary	A/F NLC, Ota
54	ADEROKU, GORIOLA AKINPELU	Senior Executive Officer (Acct)	F/A NLC, Ota
55	OLATOYE TEMITOPE TIMOTHY	Senior Confidential Secretary	A/F NLC, Ota
56	ELISHA GELKUR	Engineer I	Pro , Abuja
57	AKANBI DAYO OLUWATOYIN	Research Officer I	RRD, NLC, Ota

STAFF PROMOTION (Continued)

58	DAUDU ITOMI-USHI PAUL	Research Officer I	RRD, NLC, Ota
59	OBIORA FRANK IKENNA	Research Officer I	RRD, NLC, Ota
60	AKA, ENDURANCE OMAMOKE	Research Officer I	RRD, NLC, Ota
61	GODWIN LAZHI YISA	Research Officer I	BRD, Abuja
62	YASHI, JENNIFER	Research Officer I	RRD, Abuja
63	EMMANUEL SARAH DAWEL	Senior Confidential Secretary	A/F, Abuja
64	ADEWALE ADEFOLARIN KELVIN	Quantity Surveyor I	BRD, NLC, Ota
65	MAKWIN MANDYONG DANLADI	Senior Technical Officer	Pro, Abuja
66	AMOBI UCHENNA NNENNA	Computer Analyst I	PIT, Abuja
67	IGWILO SOPHINA CHINYELU	Statistician I	PIT, Abuja
68	ADEKUNLE, AMINAT OMOLOLA	Snr. Exec Officer (Information)	PIT, NLC, Ota
69	ABUBAKAR KHADIJA	Commercial Officer I	CES, Abuja
70	TAIWO MICHEAL AYANDOPO	Senior Executive Officer	A/F, Lagos
71	ANANSO, GEORGINA NNENE	Research Officer I	BRD, NLC, Ota
72	EKANDEM SAMUEL EDIKAN	Research Officer I	BRD, NLC, Ota
73	MAPIS ABIGAIL DANIEL	Senior Executive Officer (Acct)	F/A, Abuja
74	KADIRI ZULUKIFILU OSHIOBUGIE	Research Officer I	BRD, NLC, Ota
75	AVRE KAZZI GAIUS	Research Officer I	BRD, NLC, Ota
76	ADEKUNLE ADEBAYO	Research Officer I	BRD, NLC, Ota
77	JOSEPH STEPHEN	Admin Officer I	A/F, Abuja
78	MOHAMMED AHMED KUDU	Research Officer I	RRD, NLC, Ota
79	SANI REUBEN ORUMAH	Research Officer I	RRD, NLC, Ota
80	SULE EMMANUEL	Research Officer I	RRD, NLC, Ota
81	OLADIPO, TOLU OLUWATOSIN	Research Officer I	RRD, NLC, Ota
82	JULIANA NANFWANG TYODEN	Research Officer I	RRD, Abuja
83	ABDULRASHEED BASHIR	Senior Technical Officer	CES, Gombe
84	ABU SUNDAY PAUL AGWU	Research Officer I	BRD, Abuja
85	OKPEBHO, ENOBAKHALE	Higher Executive Officer	A/F, NLC, Ota
86	AMOS, IMAIMA IME	Chief Data Processing Assistant	PIT, Abuja
87	NDIBE MIRACLE OZIOMA	Executive Officer (Acct)	A/F, Abuja
88	DAKOP MATUR MABAS	Senior Clerical Officer	A/F, Abuja
89	CECILIA AGIDA OMARI	Senior Clerical Officer	Pro, Abuja
90	AGBO, SUNDAY	Senior Driver/mechanic	A/F, Abuja
91	ABUBAKAR TAHIR	Senior Clerical Officer	A/F, Abuja
92	ISAH, TENIMU AHMED	Senior Clerical Officer	A/F, Abuja
93	IBRAHIM MOHAMMED	Senior Driver/mechanic I	A/F, Abuja
94	IZABI HELEN A.	Senior Clerical Officer	A/F, NLC, Ota
95	IBRAHIM SAMUEL	Senior Clerical Officer	A/F, NLC, Ota
96	ROSE ALI	Senior Clerical Officer	A/F, Abuja
97	AKA, OBI FRANCIS	Assistant Executive Officer	A/F, NLC, Ota
98	EDIBOR, JIBRIN	Assistant Executive Officer	A/F, Abuja
99	ABDULLAHI, BELLO SHEHU	Assistant Technical Officer	A/F, Kano
100	IYAJI, M. JOHN	Assistant Technical Officer	A/F, NLC, Ota
101	ONUNAKU, ELIZABETH	Confidential Secretary III	A/F, NLC, Ota
102	AKPAN, SMART JOHN	Foreman	Pro, NLC, Ota
103	ABDULLAHI, KADIRI	Snr. Driver/Plant Operator Mechanic II	A/F, Abuja
104	OJO SOJI OLALEYE	Senior Driver/ Mechanic II	A/F, NLC, Ota
105	ADEBOLA ABIODUN	Senior Driver/ Mechanic II	A/F, NLC, Ota
106	FALAYI, T. CHRISTOPHER	Senior Driver/ Mechanic II	A/F, NLC, Ota

BIRTHDAYS

NAME	DEPT.	DATE OF BIRTH
Okon Daniel M.	RRD	1st October
Davies I.	A/F	3rd October
Agbo Sunday	A/F	5th October
Ogalla Mike	BRD	6th October
Olotu Garba Mohammed	DGs Office	7th October
Mlanga Victor	RRD	9 th October
Tejumade Olufemi Olanrewaje	A/P	9th October
Adeyemi O.A	BRD	10th October
Gidado M Tukur	CES	10thOctober
Gwiwanyi Sunday G	RRD	10thOctober
Obande Peter Obande	P/M	10thOctober
Subair Olakunle W	EMRD	10th October
Alabi Folasade Felicia	A/P	11thOctober
Ayitogo A Abdulkadir	PIT	11thOctober
Bakoji Adamu		11thOctober
Makwin Gillian Unapas	BRD Abuja	11thOctober
Adeyemi Aliu D.	BRD	12th October
Abubakar Tahir		15thOctober
Ajayi Olumide	A/F	16th October
Ndibe Miracle	A/F	17thOctober
Mozea M.N	BRD	18th October
Obiora Frank I.	RRD	21st October
Ikani Adah	BRD	21st October
Prof. Danladi Slim Matawal	DGs OFFICE	30thOctober
Mr Afolabi Ajibola	A/f	1 st November
Olotu Mohammed	PIT	2ndNovember
Fowobaje F.M	A/F	4th November
Akor Ojochide Innocent	A/F	7th November
Umoche Thomas	CES	19th November
Peter Mashem	PIT	11th November
Yahaya Sheshi Mohammed		12th November
Nuhu Suleman	PITD	15thNovember
Inyang Enin Ata	BRD	15th November
Chukwuma Chigo	A/F	15 TH November
Aderokku G. Akinpelu	A/F	16th November
Egbunike Grace E.	A/F	16thNovember
Ojeka Gladys	BRD	18th November
Joe -Abaya Justina A.	RRD	19th November
Alabi Vincent Ojo	A/F	20th November
Ameh Ikoyi Gloria	Proc	20th November
OlatoyeTemitope .T	A\F	22 nd November
Aisha Samaila Yakubu	DGs Office	26th November
Ahmed B. Sanni	BRD	28th November
Sule Amos Dow	A/P	28th November
Ahmed Sani	CES	28th November
Sule Amos Dow	A/P	28th November
Ahmed Sani	CES	28th November
Afaha Philip Loveth	CES	29th November
Nden Timnan	BRD	1st December
Ezirim Sunny Okwuchi	CES	2ndDecember
Bldr. Nwaigwe Daniel N.	BRD	3rd December
Akims Ufch. A	A/F	6th December
Engr. R.B Lawal	EMRD	6th December
Danyiwo .O.F	A/F	9 TH December
Sanda Abdullahi Usara	BRD	10th December
Ojo Soji Olaleye	A/F	12 th December
Asala Joseph	PIT	12 th December
Danyiwo Muraino Adekunle	A/P	12th December
Egila James Monday		13th December
Apeh Enebi Solomon	EMRD	14th December
EkanDEM E.S	BRD	16th December
Dika Sunday Musa	A/F	20thDecember

BIRTHDAYS

Duru Chuks C.	BRD	22nd December
Nataala M. Usman	BRD	22nd December
Ajayi A.A	RRD	22nd December
Hassan Yusuf	CES	24thDecember
Didel Mabilong Juliet	BRD Abuja	26thDecember
Obidiozor Anthony	PIT	27thDecember
Osei Regina Ime	A/F	28thDecember
Sule Emmanuel	RRD	30 th December
Enebi Stephen	EMRD	30th December
Stephen Joseph	A/P	30thDecember
Domi Ali	A/F	30th December
Monday Eyojo	A/F	31 st December
Sulaiman Oladimeji	PIT	31st December

WEDDINGS



Mr. Adewale Adefolarin Kelvin of BRD got married to former Miss Akor Blessing Ada Anthonia on 26th September, 2015

BIRTHS



John Okoh of BRD Ota was blessed with a Baby boy, David Ojoarome Okoh on 24th September, 2015



Mrs. Mabel Famiyi of the PIT Dept. Abuja was blessed with a Baby girl, Daniella Ifeoluwa Famiyi on 6th March, 2015

NBRRI WINS BRONZE AT 2015 RIGAN GAMES



Amos Tabe and M.G. Lawal showcasing the bronze medals they won for NBRRI in Golf Mens Double

The Nigerian Building and Road Research Institute captured the Bronze medal in Golf Doubles event at the Research Institute Games Association of Nigeria (RIGAN) 2015 Games which took place at the Nigerian Institute for Transport Technology, Zaria, Kaduna State.

NBRRI was planning to compete in several sports during the week long competition; but, due to unavailability of Funds, the Institute had to unfortunately cancel its participation.

However, the two RIGAN Council members from NBRRI, Messrs Amos Tabe and M.G Lawal, who were at the Games for official duties, took a bold initiative and registered to represent the Institute in the Golf Mens Doubles event. The Duo finished third thereby winning Bronze for NBRRI.

With the medal won, NBRRI hereby finished in 19th Position out of 22 participating Institutions at the Games.



Amos Tabe and M.G. Lawal competing in Golf Mens Double at RIGAN 2015



DG.NITT, Zaria, Aminu Musa Yusuf presenting a trophy to winners at the closing ceremony, RIGAN 2015