## GB Cenald

A MONTHLY PUBLICATION OF COCOA RESEARCH INSTITUTE OF NIGERIA (CRIN), IBADAN.

ISSUE: 51 (May, 2025)

### **CRIN Sets to Partner with FAAID**



In furtherance of the vision of the Cocoa Research Institute of Nigeria (CRIN) in improving the productivity, quality and sustainability of its mandate crops, the

Institute is set to collaborate with the Foundation for African Agritech Inclusive Development (FAAID). FAAID is a pan-African non-profit organization dedicated to leveraging technological innovation to drive agricultural transformation, promote sustainable development, and foster inclusive growth. It is guided by the principles of collaboration and mutual benefit, which align closely with the spirit of China's Belt and Road Initiative (BRI).

The Foundation paid a visit to the Institute on 28 April, 2025. The Visiting Team consists of Thomas Chow (Leader), Borton Mao, Rain

Chen and Jayeoba Adekunle. They were received by the CRIN Team comprising of Dr. Agbeniyi (Director, Research Operations), Dr. Amos Famaye (Director, Budgeting, Monitoring and Evaluation), Dr. Moses Ogunlade (Director, Production and Substations), Dr. Samuel Orisaio (Director/Cocoa Programme Leader), Dr. Anna Muyiwa (Director/Head, Crop Improvement) and Dr. Festus Olasupo (Breeder).

In his address, the CRIN Executive Director, Dr. Patrick Adebola, ably represented by Dr. Famaye, welcomed the guests and revealed the Institute's readiness to partner with FAAID on its vision, which is to bridge the gap between China's advanced agricultural technologies Nigeria's and rich agroecological potential, aligning their efforts with Government's the Nigerian Agricultural Promotion Policy (APP) and the African Union's Agenda 2063.

FAAID aims to create a partnership with CRIN that yields shared value, drives co-innovation, and ensures lasting prosperity for farmers and the broader agricultural commu-



CRIN's -nity. Recognizing outstanding achievements and deep expertise in cocoa research and agricultural innovation, FAAID proposes to collaborate with CRIN in Promoting advanced agricultural technologies and management practices to enhance crop yields and quality through the establishment of agritech demonstration farms; Providing technical training and guidance to farmers through CRIN's network, thereby enhancing agricultural skills and knowledge; Supporting the establishment of agroprocessing facilities to increase the value addition of agricultural products and create employment opportunities; and Organizing agritech exchange programs to introduce advanced agricultural technologies and best practices from both domestic and international sources.

It is believed that through the collaboration, FAAID can fully leverage CRIN's leadership in agricultural innovation to stimulate local economic development and improve the quality of life for farming communities across Nigeria.





### ED Bags Award At Progressive Senior Staff Cooperative AGM



The CRIN Progressive Senior Staff Cooperative, Thrifts and Credit Society (C.T.C.S) held her Pre-Annual General Meeting (PRE-AGM) and AGM on March 25 and April 3, 2025 at the Events Centre of the Institute.

The Executive Director, Dr. Patrick Adebola, ably represented by Dr. A.O. Famaye (Director, Budget, Monitoring and Evaluation), appreciated the society for the tremendous progress made. He particularly was aladdened by the settlement of entitlement of all retirees as well as the payment of all dividends to the beneficiaries. He however appealed that good leaders be elected by shunning sentiments when casting votes during the election. He further urged that fear of God and people's welfare be upheld.



Representative of the ED, Dr. Famaye, addressing the gathering

The outgoing President of the society, Mr. E.E.O. Agbebaku, outlined the achievements made during his tenure which



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includes: of office as follows: Membership growth from 149 to 478 as at December 31, 2024; Increase in monthly deduction from \$\frac{\text{\tex{



Mr. Agbebaku, outgone President of the society delivering his speech

The occasion availed deserving members of the society awards; the Executive Director was given award of excellence in recognition of his selfless service, developmental projects, staff welfare, and passion for humanity.



Presentation of award of excellence of the ED to Dr. Famaye



Presentation of award to the manager of the society



Award presentation to Mr. Pelemo, the pioneer president of the society



Mr. Agbebaku presented with award at the occasion



At the course of the election, 488 members were registered while 377 were accredited. The election was successfully held and the elected officers to serve for a renewable tenure of one-year term include: Mr. Bello Babajide (President), Mr. Adebayo Kayode Adekunle (Vice President), Mrs. Eruke Titiloye (Treasurer) and Mr. Akinsola Kabir (Secretary).



Voting exercise



Sorting and counting of votes

We wish the new executives of the CRIN Progressive Senior Staff Cooperative, Thrifts and Credit Society (C.T.C.S) a successful tenure.



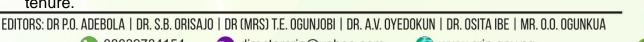
elected President, Mr. Bello awarded

### **CRIN Holds Monthly Seminar**

The 4th in the series of the 2025 monthly seminar was held on April 14, 2025 at the Lawrence Opeke Conference hall of the Institute. The program featured presentations from Mr. R.A. Buari, and Mrs. Y.O. Oladigbolu of Entomology and Plant Pathology Divisions, respectively. The seminar was chaired by Dr. O.S. Ibiremo (Director, Planning).



The Chairman of the seminar, Dr. Ibiremo (right) with the presenters





Imperatives of Climate Change, Its Effects on Insect Species Trajectories as it Cascades in Cocoa Agroecology - a review

- Buari, R. A.



Over 1,500 insect species have been reported to infest cocoa plant but less than two percent are of genuine economic importance with the major insect pests identified as Brown Cocoa Mirids

(Sahlbergella singularis), Tea Mosquito Bug (Helopeltis spp.), Cocoa Stem (Eulophonotus myrmeleon), Cocoa Pod Borer (Characoma stictigrapta), mealybugs (Planoococcus sp. and Pseudococcus sp.), Cocoa Shield Bug (Bathycoelia thalassina) Several studies among others. discussed feeding the occurrence. damage characteristics preference, control measures with the shifting climate patterns, particularly alterations in abiotic factors encompassing the climatic elements having significant consequences on the population dynamics of cocoa insect pests. The study made use of available data from literatures, online resources and annual reports at the CRIN Library to give a clearer picture of the resultant effects of abiotic stressors on cocoa plant as a yardstick for climate effects mitigation in insect pests' management. These climate changes exert direct influences over various aspects of the insects' intrinsic populations, including their developmental rates, survival rates, fecundity, dispersal capabilities as well as interactions with natural predators. The oscillations in the adult population of tea mosquito bug has been correlated with factors such temperature, intense sunlight and rainfall. Incidence of the mealybugs is greatly influenced by temperature as eggs wont

hatch when the temperature is too low or too high. Therefore, seasonal incidence and influence of weather on insect pest development is of paramount importance in forecasting pest incidence and hence determining the time and method of control.

Management of Black Pod Disease (Phytophthora pod rot) of Cocoa using Botanical species (Eucalyptus grandis and Datura stramonium)

#### - Oladigbolu Y. O.

Cocoa is a global economic tree crop whose



production significantly hampered by diseases, particularly Phytophthora megakarya, causing black pod. **Farmers** largely depend on agrochemicals for disease management

but abuse have led to resistant pathogen strains and environmental risks. In response to increasing demand for safe cocoa and conserve ecosystem, the study evaluated the antifungal potential of Eucalyptus grandis and Datura stramonium extracts as plant - based alternatives to manage black pod of cocoa. Aqueous and ethanolic extracts of the botanicals were assayed in-vitro and in-vivo at varying concentrations. There were four concentrations of aqueous and five of ethanolic extracts assessed in-vitro using a Completely Randomized Design (CRD) with three replicates. Field trials were conducted in a Randomized Complete Block Design (RCBD) on F<sub>3</sub> Amazon cocoa plots with record of black pod disease. The aqueous extracts concentration D stramonium and E. grandis reduced the mycelial growth of P. megakarya by 68.8% and 67.5%, respectively, at 7 DAI.



3% concentration mixture of both botanicals also inhibited mycelial growth of Phytophthora by 65.2%, while the ethanolic extracts showed greater efficacy, with the 1% concentration achieving 76% inhibition invitro. Zero incidence of black pod recorded on field application of 1% ethanolic extracts of D. stramonium and E. grandis at 10 WAS, which was significantly similar to the performance of synthetic fungicide. These findings proof the bio-efficacy of the botanicals, however multilocational trials should be conducted to substantiate the effectiveness for sustainable management of black pod and cocoa health.





T.I. Hassan. The scientists of the Extension Division, Dr. Uwagboe and Mr. Awodunmila, took turns to acquaint the visitors with the Institute's mandates and technologies. They proceeded to the nursery for field exposures; Value Added Research Department for exposure on the technologies developed by the Institute; Entomology and Plant Pathology Divisions for pests and diseases exposures; and finally to the fermentary section for cocoa fermentation training.



Cross section of the students of YABATECH



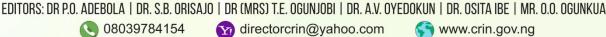
Dr. Uwagboe addressing the staff and students

#### **Excursion to the Institute**

Students of the Agricultural Extension, Yaba College of Technology (YABATECH) were in the Institute on Thursday, April 24, 2025 for an excursion and were received at the expansive Lawrence Opeke Conference Hall. They were led by one of their Lecturers, Mr.



Group photograph with the visitors





## CRIN Scientists Attended MTP Edition 19 Training in Ghana

The Institute was represented at the 19th edition of the cashew Master Training Program (MTP) held from February 10-14, 2025 in Ghana. Dr. Uche Asogwa, Mr. Olufemi Aremu-Dele, Olaitan Paul Babatunde Mrs. Yetunde Ololade Oladigbolu attended the programme. The 1st session of the 2025 Cashew Master Training Program (MTP) Edition 19 took place in Sunyani, Ghana, with the objective of enhancing participants' understanding of the cashew value chain, market dynamics, and training material development, while also fostering personal and professional growth. Below is the summary of the training activities:

## Day 1: Trainer's Attitude and Cashew Production Overview

Participants also received an overview of global cashew production, country-specific data, and nutritional aspects under the theme "Cashew: Great Food, Smart Nutrition."

## Day 2: Public Speaking and Cashew Market Value Chain

Sessions included "Standards and Certification for Processing," "Cashew Market and Value Chain Concept," and "Public Speaking Skills." The latter built participants' confidence and clarity in communication, while the former provided insight into processing standards like HACCP and Fairtrade. Discussions emphasized Africa's significant role in cashew production and Nigeria's need to boost local processing to enhance competitiveness.

## Day 3: Field Trip to Nimdee Hyeren Processing Factory

A practical learning experience was offered through a visit to a semi-automated cashew processing facility. Participants observed all stages of processing from drying to storage and interacted with factory personnel, who shared their challenges and support received from GIZ/MOVE. The integration of a dedicated plantation to secure raw materials and favourable government policy was particularly noted by the factory personnel to improve their production.

## Day 4: Standards, Certification, and Facilitation Skills

Training continued with practical sessions on training material development, data interpretation, and facilitation skills. Participants designed and presented training materials; for example, a poster illustrating cashew processing stages. A facilitation practical followed, allowing participants to lead sessions and receive feedback on their delivery.

#### Day 5: Evaluation and Conclusion

The final day covered "Processing Machine Selection, Operations and Maintenance," "Design of Adult Training Programme," and "The GIZ/MOVE Learning Courses." An expert database was introduced, and participants evaluated the week-long training. The session concluded with a closing dinner and reflections on lessons learned.



From the left: Dr. Asogwa Uche, Mrs. Oladigbolu Yetunde Ololade, Mr. Aremu-Dele Olufemi and Mr. Babatunde Olaitan Paul during the Training Manual Development practical session.

## **Health News**

#### Diphtheria - Mrs. Bosede Famaye



Diphtheria is a serious bacterial infection caused by *Cornynbacterium diphtheriae*. It primarily affects the throat and nose, but can also affect other parts of the body. It is a serious bacterial infection that can have severe consequences if left untreated.

Diphtheria is spread through respiratory droplets such as those produced by coughing or sneezing. People in close contact with an infected person such as family members or healthcare workers are at risk of contracting the disease. Individuals who are undervaccinated are more susceptible to contracting Diphtheria.

Signs and symptoms of Diphtheria includes: Severe sore throat, which is often the first symptom; High fever, often above 102°F (39°C), is common; Lymph nodes in the neck may become swollen and tender; Thick, gray membrane may form in the throat, which can cause breathing difficulties; The voice may become hoarse or raspy; A cough may develop which can be severe; Nasal discharge; Tiredness; and Difficulty breathing or rapid breathing.

People who are at increased risk of catching Diphtheria includes:

- Children and adults who don't have upto-date vaccinations.
- People living in crowded or unsanitary conditions.
- Anyone who travels to an area where

- Diphtheria infections are more common.
- Anyone who travels to an area where Diphtheria infections are more common.

Prevention of Diphtheria includes:

- Vaccination: which is the most effective way to prevent Diphtheria. The Diphtheria vaccine is typically given in combination with tetanus and pertussis vaccine (DTaP).
- Good hygiene: practising good hygiene such as washing hands regularly, can help prevent the spread of Diphtheria.
- Avoid close contact: Avoiding close contact with people who have Diphtheria can help prevent transmission.

Vaccination is the most effective way to prevent Diphtheria, and prompt treatment with antibiotics and supportive care can help manage symptoms and prevent complications.

## **Market Survey**

## **Price Report for April 2025**

This report gives the analysis of cocoa and cashew prices across selected states in April, 2025. Data were collected from key cocoa and cashew producing areas within the states, and average prices were calculated accordingly. In this month, Cocoa prices experienced an upward trend in all surveyed states during April. The most

significant increase was observed in Abia State, where prices surged by over 30% compared to the previous month. Despite this sharp rise, Abia still recorded the lowest average price at \(\frac{1}{2}\)9,500 per kg. Conversely, the highest cocoa price was recorded in Kogi State, reaching \(\frac{1}{2}\)11,500 per kg.

In contrast, cashew prices generally declined across the states, with the exception of Kogi and Kwara. While Kogi saw no change, Kwara reported a modest 5% increase. Enugu State recorded the most substantial decline, with prices dropping approximately 7.0% from March levels. The highest average cashew price was №1,400 per kg in Oyo State, while the lowest was ₩1,050 per kg in Kwara State. These price movements reflect the prevailing dynamics of supply and demand in the market during the reporting period.

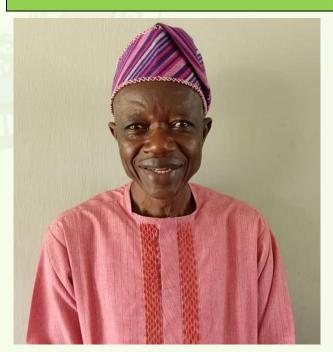
COCOA COST PER KG (LOCAL PRICE), April `2025							
State	Minimum price (₦)	Maximum price (料)	Average price (14)				
Abia	9000	10000	9500				
Cross River	10000	11000	10500				
Kogi	11000	12000	11500				
Kwara	9500	10000	9750				
Ondo	10000	11000	10500				
Osun	11000	11000	11000				
Oyo	10000	10500	10250				

Source: CRIN Survey, 2025
Economics and Statistics Sections

CASHE	ASHEW COST PER KG (LOCAL PRICE), April, 2025						
State	Minimum Price (₦)	Maximum Price (₦)	Average Price (₦)				
Abia	1100	1300	1200				
Enugu	1300	1400	1350				
Kogi	1100	1200	1150				
Kwara	1000	1100	1050				
Osun	1000	1200	1100				
Ovo	1300	1500	1400				

Source: CRIN Survey, 2025
Economics and Statistics Sections

### Staff of the Month



Dr. Amos Olatunde Famaye was born on 22 July, 1960 to Chief Matthew Famaye and Madam Eunice Amuwaolorun Famaye at Emure-Ile, Owo Local Government. He attended Our Saviour Primary School

Emure-lle (1965-1970),Methodist High School Owo (1972-1976),School Agriculture, Akure (Formerly University of Ife) (1979-1981). He obtained his Bachelor of Science (BSc Hons) in Agriculture (Crop Science) from University of Ibadan, Ibadan in 1987, Master of Science (MSc) in Agronomy and Doctor of Philosophy (PhD) in Crop Production/Physiology from same University of Ibadan in 1992 and 2000, respectively. He joined the service of the Cocoa Research Institute of Nigeria (CRIN) in November, 1993 as Research Officer 1 and rose to the position of Director of Research in October, 2014.

With over three decades of consistent commitment and dedication to research work, Dr. Famaye has worked in all five national mandate crops of CRIN (Cocoa, Kola, Coffee, Cashew and Tea). Apart from Nigeria, he has travelled across the globe to present papers at conferences and workshops. He has held several leadership positions in CRIN till date. These include: Head of Agronomy Section; Head of Agronomy and Soil Division; Coordinator, CRIN Ajassor Substation; Head of Station CRIN Uhonmora, Edo State; Head of Department, Production and Substations; Coffee Research Leader, Programme; Leader. Farming System Research Programme; Chairman Board of Survey; Chairman, Anti-Corruption and Transparency Monitoring Unit (ACTU) of ICPC; Member of CRIN Internal Management Committee; and presently the Head of Department, Budget, Monitoring and Evaluation Directorate.

Dr. Famaye is a member and Fellow of ihe Institute of Management Consultants (IMC-Nigeria), Horticultural Society of Nigeria (HORTSON) and International Association of Research Scholars and Administrators (IARSA). He is also a member of Institute of Soil Science Nigeria (ISSN), Weed Science Society of Nigeria (WSSN), Science

Association of Nigeria (SAN), International Society of Horticultural Sciences (ISHS) and International Society of Conservation Biology. He enjoyed the Institute training for his PhD programme from 1994 to 2000 at the University of Ibadan. He has several local and International high impact scientific journals, book publications and conference proceedings which are germane to the nation's food security.

Dr. Famaye is a very articulate, industrious, seasoned scientist with good leadership attributes whose work ethics is characterized by integrity and excellence. He is happily married with children.

## **May Birthday Galore**

Hearty birthday celebrations to the members of staff that will be celebrating their birthdays this month. Wishing you all the very best in your life endeavours. Congratulations!



Fajutu Kayode Samuel Adejoro Matilda Ozemwogie Nwaolise Felicia Oludayo Gbolagade 02-May

03-May

03-May 04-May

05-May

EDITORS: DR P.O. ADEBOLA | DR. S.B. ORISAJO | DR (MRS) T.E. OGUNJOBI | DR. A.V. OYEDOKUN | DR. OSITA IBE | MR. O.O. OGUNKUA



Apanisile Olusola



Daniel Mezack Andrew	05-May	Adeleke Sunday Akanji	17-May
John Muo	05-May	Dauda Oluwoyin	17-May
Oguntoyinbo Waheed	05-May	Orimoloye Philo Olotie	17-May
Oladejo Adeleke Omineye	05-May	Asogwa Evaretus Uche	18-May
Oladimeji Lynda Taye	05-May	Nome Peter	20-May
Orisasona Taye Matthew	05-May	Oshodi Veronica	20-May
Taiwo Banke Motunrayo	05-May	Ayegboyin Kayode Olufemi	21-May
Ayidu Temitope	06-May	Ganiyu Bolanle Risikat	21-May
Olaniran Omolara Caroline	06-May	Onatunde-Onanuga Joseph O.	21-May
Oluyole Kayode Akanji	07-May	Nduka Beatrice Abanum	22-May
Ogundeji Adekunle Kayode	08-May	Ogunwolu Qudus	22-May
Adekanbi Aderemi Adeniyi	09-May	Oyebanjo Temitope Omotayo	22-May
Buari Rasheed	09-May	Onojo Joseph	23-May
Raji Yashirat	09-May	Ene Amaka Perpetua	24-May
Alih Mohammed	10-May	Awe Funke Christiana	25-May
Ayidu Sunday	10-May	Muritala Wasiu	25-May
Imumolen Jeffery	10-May	Ndah Alfa	25-May
Makinde Bunmi	10-May	Ogunkunle Gbadebo	25-May
Atanda Jamiu Folorunsho	11-May	Oladipupo Olabisi	25-May
Adeoye Stella Abosede	12-May	Shittu Abu Sadik	25-May
Dada Olayinka Alfred	12-May	Yahaya Lateef Eugene	25-May
Olutade Oluwabukola Fadekemi	12-May	Adenuga Omotayo	26-May
Falana Maria	13-May	Amodu Ayodele	26-May
Owolabi Iyabo Olufunke	13-May	Ogunjobi Taiwo Elizabeth	26-May
Oyeniran Adejoke	13-May	Olayiwola Iyabo	26-May
Wada Sunday	13-May	Olubisaye Dare Joshua	26-May
Sobowale Ibrahim Olalekan	14-May	Paul Anaticha	26-May
Adeoye Wuraola	15-May	Agbor Charles Eyang	27-May
Boluwade Sunday	15-May	Akanji Azeez Abiodun	27-May
Ehimme Charles	15-May	Olorunmota Rosemary Temilade	27-May
Eubodaghe Monday	15-May	Magaji Jonathan Danladi	27-May
Oyemuwa John	15-May	Bakare Abibat	28-May
Solomon Oluremi	15-May	Ganiyu Olubode	28-May
Adeyemo Stephen	16-May	Oloyede Amos Adegbola	28-May
Ajayi Aremu John	16-May	Adewale Temilade Olujope	30-May
Odugbela Oluwasina	16-May	Adio Stephen	30-May
Onanuga Odutola	16-May	Bello Jelili Ademola	31-May
Onlaws! Mudutan	40 14-		1/2 (0)

Salami Mufutau

16-May







## **Products and Services**

- Research and Consultancy
   Training on Best Agricultural Practices
- Supply of high yielding, disease resistant, early maturing and improved Cashew, Cocoa, Coffee, Kola and Tea varieties
- Nursery and Field Establishments
   Agrochemical Screening
- Cocoa Flavour Laboratory Services
   Value Additions
- Soil and Biological Services
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