



# Welcome to Workshop on: “Modernising Agricultural Engineering Programmes to meet Africa’s Agenda 2063: The Africa We Want”

21 September 2020



Harper Adams  
University



# Mission for PASAE/AfroAgEng

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- To promote and advance the profession of Agricultural Engineering in Africa
- Seek to become
  - Key knowledge partner
  - Visible policy advocate
- Promote role of engineering and technology in the sustainable transformation and industrialisation of agriculture in Africa

# Aims of Workshop

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- (i) Showcase/provide an overview of Agricultural Engineering curricula offered at various institutions to learn from best practices.
- (ii) Capture an assessment of the impact of Agricultural Engineering programmes on sustainable food production in response to regional needs
- (iii) Promote Agricultural Engineering curriculum transformation to support engineering and the use of modern technology in the transformation and industrialisation of agriculture in Africa towards Agenda 2063 and beyond.
- (iv) Share accreditation and quality assurance practices in Agricultural Engineering programmes.
- (v) Share good pedagogical practice to equip Agricultural Engineers to meet the current and future needs of industry.
- (vi) Promote engagement between Agricultural Engineering degree programmes offered in Africa and internationally.
- (vii) Establish a Technical Section of PASAE focussed on Agricultural Engineering Education and Training in Africa.

| Time (GMT+1)  | Proposed Topic  | Speaker   |
|---------------|---|---|
| 11.00 - 11.10 | Welcome and Overview of PASAE and Workshop Objectives   | Prof Umezuruike Linus Opara, President PASAE and CIGR; University of Stellenbosch, South Africa                         |
| 11.10 - 11.20 | The GCRF and the role of RAENG in strengthening engineering in Africa                                       | Gaelle Elisha, Royal Academy of Engineering, London, UK   |
| 11.20 - 11.35 | Agricultural Engineering at University of KwaZulu-Natal, South Africa                                       | Prof Jeff Smithers, University of KwaZulu-Natal, South Africa   |
| 11.35 - 11.50 | Agricultural, Biological and Environmental Engineering in Nigeria   | Prof E.A. Ajav, Univ of Ibadan, Nigeria<br>Prof K. A. Taiwo, OAU. Ife, Nigeria  |
| 11:50 -11:55  | Leg stretch and comfort break   |   |
| 11.55 - 12.10 | Agricultural and Biosystems Engineering education in Morocco  | Prof El Houssine Batali, Vice President de l'ANAFIDE, Rabat, Morocco.   |
| 12.10 - 12.25 | Agricultural and Biological Engineering education in Ghana.   | Profs Ahmad Addo and Emmanuel Bobobee, Kwame Nkrumah Univ of Science & Tech, Kumasi, Ghana                              |
| 12.25 - 12.40 | Agricultural and Environmental Engineering education in Kenya   | Prof Lawrence Gumbe, University of Nairobi, Kenya<br>Prof Ayub Gitau, Dean of Engineering, University of Nairobi, Kenya |
| 12.40 - 12.55 | Agricultural Engineering education in Uganda  | Prof Noble Banadda, Makerere University, Uganda   |
| 12:55 -13:30  | Questions, legs stretch and comfort break   |   |
| 13.30 - 13.45 | Requirements for Agricultural Engineering education in Africa – FAO perspective                             | Dr Joseph Mpagalile, Agricultural Engineer, FAO-ROA, Accra.   |
| 13.45 - 14.00 | Localized engineering applications paradigm – a pedagogy for producing the engineers for the Africa we Want | Dr. Tom Lee, Chief Scientific Officer, Quanser and Adjunct Professor, University of Waterloo, Canada.                   |
| 14.00 - 14.05 | Switching to breakout rooms for group discussions   |   |
| 14.05 - 14.55 | Break into groups in breakout rooms for discussion of questions   | One reporter per group  |
| 14:55 -15:00  | Leg stretch and comfort break   |   |
| 15.00 - 15.45 | Group report back and general discussion  |   |
| 15.45 - 15.55 | Formation of Education Technical Section of PASAE   | Prof Umezuruike Linus Opara / Prof Jeff Smithers  |
| 15.55 - 16.00 | Wrap up   | Prof Umezuruike Linus Opara   |

# Questions for Group Discussion

| Questions   | Facilitation and Reporting  |
|---|---|
| 1. Are the Agricultural Engineering curricula offered at various institutions meeting the needs of industry? If not, what needs to change?  | Prof Umezuruike Linus Opara<br>Prof Akindele Alonge<br>Prof Olaniyi Fawole<br>Ms Boeboe Neethling |
| 2. What transformation of Agricultural Engineering curriculum is necessary to support the transformation and industrialisation of agriculture in Africa towards Agenda 2063 and beyond? | Prof Emmanuel Bobobee<br>Prof El Houssine Batali  |
| 3. How can quality assurance in Agricultural Engineering programmes be improved to facilitate accreditation?  | Prof Noble Banadda<br>Prof Tilahun Workneh  |
| 4. What good pedagogical practice should be adopted to meet the needs of current and future students?   | Dr Jonathan Cooper<br>Mr Ed Mashatise<br>Dr Thomas Lee  |
| 5. What needs to be done to promote engagement and collaboration between Agricultural Engineering degree programmes offered in Africa?  | Mr Alastair Taylor<br>Dr Joseph Mpagalile   |
| 6. What matrices/milestones are needed to progressively measure/assess the impact of enhanced Agricultural Engineering Curricula on the journey towards the Africa we Want?             | Prof Michael Faborode<br>Prof Ayub Gitau<br>Prof KA Taiwo   |

# PASAE Contacts

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