



**5<sup>th</sup> Pan African Society of Agricultural Engineering (PASAE) International Conference, 2023**

**Theme: Engineering Agenda 2063: The Africa We Want**

**Venue: University of Nairobi Towers**

**Date: Wednesday 6- 8 December 2023**

| 1.0. WEDNESDAY 6 DECEMBER 2023 |                          |   |             |             |
|--------------------------------|--------------------------|---|-------------|-------------|
| Time                           | Presentation             | Presenter   | Moderator 1 | Moderator 2 |
| 8:00 am-<br>8:30 am            | Arrival and Registration |   | Secretariat |             |
| 8: 30 am-<br>9:00 am           | Welcome Remarks          |   |             |             |
| 9:00 am-<br>10:30 am           | Opening Ceremony         | <ol style="list-style-type: none"> <li>1. Hon. Mithika Linturi, CS, Ministry of Agriculture and Livestock Development, Kenya</li> <li>2. Prof. Michael O. Faborode, President, PASAE</li> <li>3. Carla Mucavi, Regional Director, FAO</li> <li>4. Ms. Inger Andersen of Denmark, Executive Director, UNEP</li> <li>5. Ms. Maimunah Mohd Sarif, Executive Director, UN-Habitat</li> <li>6. Hon. Alice Muthoni, CS, Ministry of Water, Sanitation and Irrigation, Kenya</li> <li>7. Prof. Stephen Gitahi Kiama, Vice Chancellor, University of Nairobi</li> <li>8. Prof. Paul Wainaina, Vice Chancellor, Kenyatta University</li> <li>9. Eng. Erastus Mwongera, Chairperson, Engineers Board of Kenya</li> <li>10. Erick Ohaga, President, Institution of Engineers in Kenya</li> </ol> |             |             |

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|  |  | 11. H.E Ms. Jean Njeri Kamau,<br>Permanent Representative of<br>Kenya to African Union |                        |                   |   |                   |                        |                        |
| 10:30<br>am-<br>11:00 am   | Tea Break  |  |                        |                   | Secretariat                                   |                   |                        |                        |
| 11:00<br>am-<br>13:00 pm   | 1. AU's Vision for Africa's<br>Agricultural Transformation<br>through Dedicated<br>Investments by Governments<br>and Private Sector  |  |                        |                   |   |                   |                        |                        |
|  | 2. AFDB's Agenda for Feeding<br>Africa through the<br>Development of Special Agro-<br>Industrial Processing Zones<br>(SAPZ)  |  |                        |                   |   |                   |                        |                        |
|  | 3. PASAE's Road Map for<br>Knowledge Based-<br>Transformation of Agricultural<br>Mechanization Using<br>Emerging Technologies  |  |                        |                   |   |                   |                        |                        |
|  | 4. UNEP's Agenda for Preserving<br>the African Environment and<br>Water Resources while<br>Intensifying Agricultural<br>Productivity for a Prosperous<br>Hunger-Free Continent |  |                        |                   |   |                   |                        |                        |
| 1:00 pm-<br>2:00 pm  | Lunch Break  |  |                        |                   | Secretariat                                   |                   |                        |                        |
| <b>Time</b>  | <b>Presentation</b>  | <b>Presenter</b>   | <b>Moderator<br/>1</b> | <b>Moderator2</b> | <b>Presentation</b>                           | <b>Presenter</b>  | <b>Moderator<br/>1</b> | <b>Moderator<br/>2</b> |
| <b>Technical Session 1:</b> Seamless Connections (Roads, Railways, Air Transport, Water Transport, ICT Infrastructure) |  |  |                        |                   | <b>Technical Session 2:</b> Energy for Africa |                   |                        |                        |
| 2:00 pm-<br>4:00 pm  | 1.   |  |                        |                   | 2. Solid Biofuel<br>Production by             | Aliyu<br>Mohammed |                        |                        |



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|--|--|------------------|-------------------|-------------------|---|------------------|--------------------|--------------------|
|  |  |                  |                   |                   | Hydrothermal Carbonization of Wood Shavings Effect of Carbonization Temperature and Biomass-to-Water Ratio on Hydrochars Properties |                  |                    |                    |
|  | 3.   |                  |                   |                   | 4.  |                  |                    |                    |
|  | 5.   |                  |                   |                   | 6.  |                  |                    |                    |
|  | 7.   |                  |                   |                   | 8.  |                  |                    |                    |
|  | 9.   |                  |                   |                   | 10.   |                  |                    |                    |
|  | 11.  |                  |                   |                   | 12.   |                  |                    |                    |
| 4:00 pm-6:00 pm  | PASAE Council Meeting  |                  | Presenter         |                   | Moderator 1   |                  | Moderator 2        |                    |
| 6:00pm   | Adjournment  |                  |                   |                   | Secretariat   |                  |                    |                    |
| 7:00pm   | Sponsored Dinner   |                  |                   |                   | Secretariat   |                  |                    |                    |
| <b>2.0. THURSDAY 7 DECEMBER 2023</b>                                       |  |                  |                   |                   |   |                  |                    |                    |
| 8:00 am-8:30 am  | Sponsored Events   |                  |                   |                   |   | Moderator1       |                    | Moderator 2        |
| <b>Time</b>  | <b>Presentation</b>  | <b>Presenter</b> | <b>Moderator1</b> | <b>Moderator2</b> | <b>Presentation</b>   | <b>Presenter</b> | <b>Moderator 1</b> | <b>Moderator 2</b> |
| <b>Technical Session 3: Industrialized Agriculture (for Food Security)</b> |  |                  |                   |                   | <b>Technical Session 4: Housing</b>   |                  |                    |                    |
| 8:30 am-10:30am  | 13. Effect of Machine Parameters on Physical and Sensory Properties (Desirability) | Adebayo, S. E    |                   |                   | 14.   |                  |                    |                    |



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|--|---|-----------------------|--|--|-----|--|--|--|
|  | of Coated Peanut Snacks   |                       |  |  |     |  |  |  |
|  | 15. Determination of Crop Coefficients for Garden egg ( <i>Solanum melongena</i> ) Using Non-weighing Lysimeter in Minna, Niger State, Nigeria  | Adeoye, Peter Aderemi |  |  | 16. |  |  |  |
|  | 17. Potential Evaporative Coolers for Shelf-Life Extension of Fresh Fruits and Vegetables in Sub-Saharan Hot and Semi-Arid Regions Supply Chain | Tilahun Workneh       |  |  | 18. |  |  |  |
|  | 19. Assessment of Water Use and Yield of Okra ( <i>Abelmoschus esculentus</i> ) Using Manual, Semi-Automated                                    | Adeoye Peter          |  |  | 20. |  |  |  |



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|  | and Automated Irrigation   |                  |  |  |                                      |  |  |  |
|  | 21. Prediction of Quality Parameters and Classification of Pear Fruit Maturity stages using backscattering imaging and artificial neural network | Adebayo, S. E    |  |  | 22.                                  |  |  |  |
|  | 23. Development of a Low-Cost Drip Irrigation System for Low-Income Farmers  | Animashaun, I. M |  |  | 24.                                  |  |  |  |
|  | 25. A Review of the Literature on the Trends in Sweet Potato Drying and the Application of Pre-Drying Treatments                                 | Khuthadzo Mugodo |  |  | 26.                                  |  |  |  |
| 10:30 am-11:00 pm                                  | Tea Break  |                  |  |  | Secretariat                          |  |  |  |
| <b>Technical Session 5: Free Trade in Services</b> |  |                  |  |  | <b>Technical Session 6: Security</b> |  |  |  |
|  | 27.  |                  |  |  | 28.                                  |  |  |  |



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|--|---|------------------------|--|--|--|--|--|--|
| 11:00am-<br>1:00 pm  | 29.   |                        |  |  | 30.  |  |  |  |
|  | 31.   |                        |  |  | 32.  |  |  |  |
|  | 33.   |                        |  |  | 34.  |  |  |  |
|  | 35.   |                        |  |  | 36.  |  |  |  |
|  | 37.   |                        |  |  | 38.  |  |  |  |
| 1:00 pm-<br>2:00 pm  | Lunch Break   |                        |  |  | Secretariat  |  |  |  |
| <b>Technical Session 7: Sustainable Environment and Climate Change, Blue Economy</b> |   |                        |  |  | <b>Technical Session 8: Engineering Education and Practice</b> |  |  |  |
| 2:00 pm-<br>4:00pm   | 39. Towards the Development of Design and Construction Standards for Climate Smart Horticultural Greenhouses in Kenya                           | Dr. Patrick Ajwang     |  |  | 40.  |  |  |  |
|  | 41. Modelling of Phosphorus Loss from Sediment Yield Using the Soil and Water Assessment Tool Model a Case Study of Chanchaga Watershed Nigeria | Ibrahim Abayomi        |  |  | 42.  |  |  |  |
|  | 43. Creation of Micro-Catchment System with Contour   | Dauda, Kola Abdulkadir |  |  | 44.  |  |  |  |



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|-----------------------------------|-------------------------------------|--|--|--|------------------|--|--|--|
|                                   | Bunds to Enhance Citrus Cultivation |  |  |  |                  |  |  |  |
|                                   | 45.                                 |  |  |  | 46.              |  |  |  |
|                                   | 47.                                 |  |  |  | 48.              |  |  |  |
|                                   | KeSEBAE Annual General Meeting      |  |  |  | Secretariat      |  |  |  |
|                                   | PASAE General Assembly              |  |  |  | Secretariat      |  |  |  |
|                                   | Adjournment                         |  |  |  | Secretariat      |  |  |  |
|                                   | Sponsored Cocktail                  |  |  |  | Secretariat      |  |  |  |
| <b>3.0 FRIDAY 8 DECEMBER 2023</b> |                                     |  |  |  |                  |  |  |  |
| <b>Time</b>                       | <b>Activity</b>                     |  |  |  | <b>Moderator</b> |  |  |  |
| 7:00 am-5:00 pm                   | Field Excursion                     |  |  |  | Secretariat      |  |  |  |
| 6: 00 pm                          | Departure                           |  |  |  | Secretariat      |  |  |  |