



# 2<sup>nd</sup> International Conference on Agriculture, Science and Engineering (ICASE2013)

**Venue:**

Federal College of Education(Technical),Umunze, Anambra State, Nigeria

**Date:**

July 1-4, 2013

**THEME**

“Sustaining Dynamics in Agriculture, Science and Engineering”

**Chief Host: Professor Josephat O.Ogbuagu**

## **Preamble**

On behalf of the Programme Committee we are pleased to invite you to take part in the 2nd International Conference on Agriculture, Science and Engineering(ICASE2013) scheduled to take place at Federal College of Education(Technical), Umunze-Nigeria) on the **1st, 2nd, 3rd and 4th of July, 2013.**

The ICASE2013 are international conference, is organized by the African Society for the Scientific Research (ASSR), Khartoum-Sudan and African Association for Teaching and Learning (AATL), Accra-Ghana in partnership with Federal College of Education(Technical), Umunze-Nigeria amongst other institutions. The mission of the conferences are to further the advancement and innovation in agriculture, science and technology. As the educational world becomes increasingly global, new ways to explore learn, and share knowledge are needed. The Conferences serve as a means to connect and engage creative scientists, technologists, enginners, educators, entrepreneurs, researchers, consultants, project managers, policy makers, and others in the topics and fields in which they are passionate about.

We invite you to participate in the conferences. You will also find all the necessary information at our conference website.[www.mcser.org/conferences](http://www.mcser.org/conferences). Please note that the proposal (full text papers) deadline is **June 30, 2013**. It would be most highly appreciated if you can pass this information on to your colleagues who might be interested in our conference.

We the Program Committee on behalf of cooperating partners feel honoured to be hosting the conference in Nigeria and look forward to seeing you in Umunze.

**Professor Dr Samir Mohamed Alredaisy**  
**Co-Chair, *International Scientific Committee***

## SUB-THEMES

### Agriculture

Rural Development, Biomass, Animal Behavior, Geochemistry, Agricultural Education, Computers in Agriculture, Food and Nutrition, Plant and Tree Studies, Sea Studies, Marine, Crop Studies, Agronomy, Soil, Mycology, Fish, Forest, Genetics, Agribusiness, Hydrology, Land Use and Policy, Pesticides, Plant Pathology, Veterinary Sciences, Variable rate fertilization and spraying technology ; Recombination intertillage and weeding machinery; The damping, optimizing , reliability and intellectualization design technique for combine harvester; Economic crop harvesting technology and Machinery ;Straw bale-silagerer and efficient utilization new technology; Facility Agriculture control and high production new technology ;Seed Cleaning and Upgrading, processing, drying and store new technology ;Biological systems computational methods and intelligence in modelling and visualization simulation research; Agricultural equipment virtual prototyping, virtual test and reliability design method ; Intelligent design of biochips, bioinstrumentations; Precision farming technologies, equipment and instruments ; Large and medium-sized tractor and machinery in the design, manufacture and application ;Energy saving techniques and intelligent methods in developing vehicles, engines and agricultural equipments; Support for low carbon agriculture and sustainable development of the new technologies of agricultural engineering; Agricultural soil organic carbon compounds, organic carbon in stability and farmland productivity ;Circular agricultural engineering technology; Irrigation and agriculture, energy saving and new technology; Improve the efficiency of agricultural equipment technology, measures and mode; Ecological agriculture, green farming and organic agriculture, agri-tourism and other new mode; The new technology in utilization of clean and renewable energy resources, including solar, winder power and biomass; The techniques for sustainable and solar building , greenhouse Photo-Voltage Generation ;Wind/PV hybrid system and wind power generation system; Design, control and network connecting technology of big-scale wind turbine ; Biomass energy utilization new technology (Principle and application for biomass bioconversion technology of stalk, energy crop, forest and seaweed bio-energy,etc..); The new technology in agricultural products processing and the quality analysis/ detection technology for food / agricultural products ;The application of HPLC in food/ agricultural products' detection and analysis ;The application of mass spectrometry in food/ agricultural products' detection and analysis ;The application of spectral analysis technology in food/ agricultural products' detection and analysis ;The application of bio-detection technology in food/ agricultural products;The application of rapid detection technology and traceable system in food/ agricultural products;The new technology in agricultural products processing; Agricultural Education

### Science and Applied Science

Botany, Ecology and Nature Conservation, Waste Management; Astronomy Biology; Biotechnology; Biochemistry; Chemistry; Computers; Earth Science; Ecology; Energy; Environment; Geography; Geology and Geophysics; Technical Education, Science Education; Mathematics Education; Information Technology; Life Sciences;Mathematics;Medicine;Meteorology;Nanotechnology;Nursing;Physics; Statistics; Space; Natural Products Chemistry, Material Science & Nanochemistry; Physical & Computational Chemistry, Organic Synthesis; Pharmaceutical Chemistry and Drug Design; Latest Developments in Water Research; Recent Advances in Spectroscopy, Renewable Energy; Coordination Chemistry; Electrochemistry, Neurochemistry; Coordination and Inorganic Chemistry; Bioorganic Chemistry, Bioinorganic Chemistry;

Environmental and Analytical Chemistry; Heterocyclic Chemistry; Solution Chemistry; Structure and Function of Pi-Conjugated Systems; Human Biology; Human Science and Informatics; Marine Biology and Sciences; Mathematical Biology; Medical and Pharmaceutical Engineering; Medical Technology; Microbiology; Molecular Biology; Nanoscale Science and Engineering; Pharmacy and Pharmaceutical Sciences; Biotechnology ,Clinical and Health Informatics; Clinical Laboratory Sciences ; Bioseparations Science and Engineering; Biosystems Science and Engineering; Cytotechnology; Ecological Science and Technology; Environmental Science and Engineering; Fisheries; Agricultural and Biological Engineering; Animal Science and Zoology, Biochemistry and Molecular Biology; Bioengineering and Biomolecular Materials; Biological and Biomedical Sciences; Biology and Life Sciences; Biomedical Engineering Systems and Technologies, Biomolecular Science and Engineering; Bioscience and Technology, Animal and Veterinary Sciences; Food Science and Technology; Pharmacy Engineering; Plant Science and Technology; Toxicology; Biomaterials, Biomedical image processing, Biomedical Robotics and Biomechanics; Biomedical signal processing; Bio-Modeling and Control,Biosensors, Bioanalytics and Bio-Statistics; Brain science and Cognitive technologies; Cognitive Neuroscience and Technology; Clinical chemistry and Clinical neurophysiology; Complex Bioinformatics and Complex Medical Imaging; Complex Technology in Rehabilitation and Complex Virtual Technology in Medicine and Data mining in Medicine; Dementia, Neuron Disease, Diagnostic Technology; Educational Technology; Digital Human, e-Healthcare and Electrophysiology; Engineering design ,e-Science; Imaging technology; Implants; Information and Communication Technology; Interventions, Man-machine interfacing, Measurement techniques, Medical diagnostics and Medical instruments; Medical Robotics;Medical Web Intelligence and Telemedicine, Micro Tele-Operation/Tele-Surgery and Molecular imaging; Movement sensing, Musculoskeletal models; Finite Element models, Human Vision and Technologies; Nano/Micro Bio-Robotics, Neural stimulation; Neurorehabilitation; Radiotherapy; Registration, and Navigation; Modeling and Segmentation;\_Welfare Information Technology; Rehabilitation engineering and Rehabilitation Robotics; Surgical techniques; Tissue engineering;Virtual Surgery; Medical Knowledge Networks and Management; Allergology and Pulmonology ,Basic and Preclinical Sciences; Bioinformatics and Telemedicine Cardiology; Dental Surgery; Dentistry; Dermatology; Endocrinology; General Surgery and Transplantology; Genetics and Molecular Biology ;Gynecology and Obstetrics; Health Sciences and Epidemiology; Infectious Diseases Internal Medicine; Invasive Cardiology and Cardiosurgery ;Laryngology; Neurology; Neurosurgery; Oncology and Hematology; Oncological Surgery; Ophtalmology; Pediatrics; Perinatology; Home Economics/Science; Pharmacological Sciences; Psychiatry and Clinical Psychology; Urology ;Vascular Surgery; Astronomy, Astrophysics and Cosmology, Atomic, Molecular and Optical Physics; Vibrational Spectroscopy, Mathematical Physics, Complex Systems, Chaos and Self-Organisation; Spectral Line Shapes, Computational Physics and Numerical Simulation; Semiconductors, Clusters, Nanomaterials, Low Temperature Physics; Optical Remote Sensing of the Environment, High Energy Physics, Particles and Fields;History and Philosophy of Physics, Metrology and Instrumentation, Nuclear Physics; Radiation Protection, Radiation Risk Communication: Issues and Solutions; Optics and Lasers, Laser Safety, Particle Accelerators, Plasma and Gas-discharge Physics; Quantum Mechanics and Quantum Information Theory, Thermodynamics; Acoustics, Biophysics and Medical Physics, Electrostatics, Electromagnetic Waves; Magnetism and Magnetic Materials, Mechanics, Rheology and Tribology, X-rays; Synchrotron Radiation and Crystallography, Neutron Scattering; Physics Research & Education; Science Education, Food Technology, Technical Education; Science and Technology Policy.

## Engineering

Algorithmic information theory and Theory of computation ;Cryptography ,Formal semantics ,Analysis of algorithms and problem complexity ;Logics and meanings of programs, Mathematical logic and Formal languages; Hardware; Control structures and Microprogramming,Arithmetic , Logic and Memory structures ;Input/output and Data communications, Logic and VLSI Design, Integrated circuits ,Performance and reliability; Computer systems organization; Computer architecture ,Computer networks and Distributed computing ,Computer system implementation; Computing methodologies; Symbolic and Algebraic manipulation ,Artificial intelligence, Computer graphics and computer vision ;Pattern and Speech recognition, Simulation and Modeling ,Document , text ,Image and Digital signal processing; Computer applications; Robotics;Automated theorem proving ,Physical science and Engineering ,Bioinformatics, Medical informatics; Mathematical software, Computer-aided engineering ,Human-computer interaction ,Speech synthesis ,Telecommunications; Administrative data processing ,Enterprise resource planning, Customer relationship management; Computational ,Plasticity ,Geo and Biomechanics; Heat and Mass Transfer; Compressible Flows and Transport Phenomena; Nanomaterial, Material and Automotive Engineering; Fracture, Vibrations, Acoustics and Noise Control; Multibody, Nonlinear, Structural ,Fluid and Aerodynamics, Manufacturing Process; Mechatronics, Computational ,Plasticity ,Geo and Biomechanics, Computer Supported, Collaborative ,Integrated Product and Maintenance Engineering; Engineering Statistics and Physiology and Biomedical Instrumentation; Engineering Experimental Design; Reliability and Quality Control, Risk and Decision Analysis; Optimization Methods; Computer-Aided Design and Manufacturing Processes with Methods; Intelligent Engineering Systems, Linear Nonlinear and Integer programming; Assignment problem ,Transportation network design and Simulation, Facilities Design and Logistics; Systems thinking ,analysis, Engineering Management and Leadership; Quality and Productivity Management; Human Factors and Ergonomics; Information Systems for the Manufacturing; Computer Simulation Methods; Integrated circuit, Analog circuits, Nonlinear circuits, Mixed-mode circuits; Digital Circuits; Electronic amplifier ; Nano-technologies; Superconductivity circuits; Circuits design; Antennas technology, Sensors; CAD Tools; Silicon devices, Molecular computing; Thin film technologies; VLSI; System architectures; Microelectronics; DNA computing; Circuits for Artificial Intelligence and Scientific Computing Applications; Circuits and networks;Civil Engineering; Oil and Gas Technology; Architecture, Building Technology.

### Important Dates

- **Submission Deadline**  
*Until June 30, 2013*
- **Registration Deadline**  
*Early Bird: Until March 31, 2013*  
*Late: As from 1<sup>st</sup> April, 2013*
- **Conference dates**  
*July 01-04, 2013(Umunze, Anambra State-Nigeria)*

## Information for Authors

1. The paper should be A4 format. Left, right, top and bottom margins should be 2.00 cm each. English is the official language of the conference.
2. Title should be 14-point, all in capital letters, bold and centered.
3. Font size throughout the paper should be 12-point in Garamond, in single space, and justified.
4. The whole text should be written with “Garamond”.
5. Do not give page numbers for the paper
6. A blank line should be left after the title. Names of authors, affiliations and e-mails should be provided after the title.
7. Following the authors’ information, a 200-word abstract should be provided with five keywords. The “**Abstract**” should be a summary of the paper.
8. Graphics and pictures should be prepared in black and white.
9. One blank line should be allowed between the components of the paper (i.e. introduction, methods and procedures, results, conclusion, references.). Main headings should be centered, bold and capitalized. The second level of headings should be title case and bold. The third level should be italicized and upper- and lower-case heading.
10. For titles of tables, graphics and pictures, sentence case should be used.
11. Texts used in Tables, graphics and pictures should be Garamond. The font size can be reduced to 10 pt.
12. **References** should be at the end of the paper and should be listed alphabetically. References and citations within the text should be prepared in the APA format.
13. Abbreviations should comply with the standard use. They should be given in full format at the first place they are used.
14. The paper should be maximum 10 pages
15. SI unit should be employed where applicable
16. Only proposals containing abstract and full texts are acceptable. We do not welcome only abstracts.
17. All submissions must be by email attachment preferably in MS words. We do not accept hard copies
18. All papers must adhere to this template in format. No paper can be processed if not formatted according to the stated rules and regulations.
19. Papers submitted after **June 30, 2013** may be presented at the conference but they may not be published in the conference book
20. The first 50 registered participants will collect free copies of our previous publications.
21. All papers should be submitted to [icaseeditor@gmail.com](mailto:icaseeditor@gmail.com)

## Conference Fees

All Participants must complete the registration form. Payment of Conference registration should be made in USD in the form of bank transfer (all costs at Participant’s charge). We request that you send us a computer print-out copy of the bank transfer and the duly completed registration form by email attachment. Additional information is provided on the registration form. Without the receipt of your completed registration form, print-out copy of the bank transfer and signed Copyright Agreement, it means you are not registered for the Conference.

<b>Conference Registration:</b>	<b>International</b>	<b>Local</b>
<i>Registration:</i>	US \$150	N25500
<i>Registration at Venue</i>	US\$180	N30000
AATL/ASSR Members	US \$90	N13000
Student Registration	US \$30	N3800
Listeners only	US \$40	N5500
Corporate Participation	US \$200	N30000
Membership Registration	US \$40	N5500

NB: Payment in local currency is only possible for delegates resident in Nigeria.

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**Name of Bank: United Bank for Africa PLC (UBA)**

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## **Grant and Support**

Aiming at encouraging intended participants, the conference organizers have created a solidarity fund. A limited sponsorship is available for participants from the developing countries. Young scholars below the rank of Senior Lecturer or its equivalent and women are particularly encouraged to apply. Support may be in the form of full sponsorship including travel grants and boarding or partial sponsorship.

## **Co-Sponsoring Partners**

African Society for the Scientific Research (ASSR) and African Association for Teaching and Learning (AATL) *with the Support and Cooperation of:*

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## **Publication**

Authors of all selected papers will have their works published in the Conference proceedings with ISBN/ISSN to be distributed at the conference venue. Papers of best quality will be published in some selected journals or other publications (ISSN). Some carefully selected papers will be available online.

## **Practical Information**

### **Accommodation**

Cheap hotels are available around the conference venue. Information on accommodation is available on request. The hotel offers reduced rates for conference delegates. Delegates may make other arrangements if they wish. If any participants need accommodation, the conference organizers can reserve rooms for them. Price of accommodation ranges from US\$35 to US\$150 per night.

### **Visa and Travel Information**

International guests visiting Nigeria may require a visa. Visitors from West Africa do not need a visa. Participants should contact the Nigerian Embassy or Consulate nearest to them for more information. Registered participants who need Invitation Letter/Acceptance Letter to facilitate their visa application can send us email. Detailed list of Nigerian Embassy/Consulates and the requirements for visa application can be obtained from the nearest Nigerian Embassy.

### **Adverting and Exhibitions and Sponsorship**

The ICASE would remain indebted for sponsorships and donations to support their events. All donations shall be acknowledged. Donors and collaborators will have their names and/or logos placed on the Conference official website.

The ISC welcomes requests for placing adverts on the event programme, Conference materials, etc. We also invite corporate agencies/individuals or

Associations that wish to make exhibitions, trade fair during the events. Adverts and exhibitions may be charged.

Conference Programme	Dimensions	Rate:
Back cover	8-1/2" x 11"	\$250 (N40,000)
Inside back cover	8-1/2" x 11"	\$150(N25,000)
Inside front cover	8-1/2" x 11"	\$150(N25,000)
Full page (within First 5 pages of the program)	8-1/2" x 11"	\$120(N20,000) ( 5 Spots available )
Full page (within Last 5 pages of the program)	8-1/2" x 11"	\$120(N20,000) ( 5 Spots available )

**Booth Fee - \$500 or N75, 000.** Booth Fee includes:

Standard 10' x 10' booth

- o 3' high side dividers, 8' high backdrop
- o One 8' standard table covered and skirted
- o Two Chairs, Wastebasket, A/C Power

2 exhibitor badges per booth

Company listing in the conference program

**Conference Bags (\$750 or N120,000)** - Have your company logo imprinted onto the conference bags for great exposure during and after the conference. These cloth bags will have your company/university logo (one-color) imprinted on one side, along with the conference title/year.

**Coffee/Refreshment Breaks (\$500 or N75,000 each)**- Sponsor the daily refreshment breaks for the conference attendees to keep them going strong. Break sponsorships are available on a per day basis. Signage will be provided to display your company/university as the break sponsor.

**Print Station (\$500 or N75,000)**- Sponsor the conference print station that allows attendees to print session handouts, boarding passes, emails, etc. Signage will be provided to display your company/university as the station sponsor.

**Internet Cafe (\$500 or N75,000)** - Our 10 computer internet cafe allows attendees to surf the web and keep in touch with email while at the conference. We will display your logo as the desktop background on each computer along with providing signage that boasts your company/university as the sponsor.

**Dinner/Lunch (\$5000 or N750,000 each)** - Daily buffet dinner/Lunch provides the conference attendees with an excellent meal to start the day. Sponsorships are available on a per day basis. Signage will be provided to display your company/university as the breakfast sponsor.

**Conference Bag Inserts (\$750 or N120,000)** - Insert your promotional materials including Call for Papers, Subscription forms, Adverts, Brochures etc directly into each attendees bag for excellent exposure. All promotional materials must be approved by the conference prior to acceptance of the materials.

**Badge Holder Lanyards (\$700 or N100,000)** - Have a small company logo imprinted onto the badge holder lanyard of attendee. These lanyards will provide great exposure as attendees wear their name badges daily.

**For more information, contact: Beverly Resources(Consultants & Marketers), email: [beverlyresources@gmail.com](mailto:beverlyresources@gmail.com)**

## Contact Information

For more information or clarification on any aspect of the Conference, please contact the conference secretariat, (**Dr Ugochukwu P.N. Amadi**, Co-Chair, ICASE2013 International Scientific Committee, email: [icaseeditor@gmail.com](mailto:icaseeditor@gmail.com)).  
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