



## 2ND International Conference on Science and Technology Education (ICSTE2013)

**Michael Okpara University of Agriculture, Umudike-Abia State, Nigeria**  
**August 12-15, 2013**

### **Preamble**

We are pleased to invite you to the International Conference on Science and Technology Education (ICSTE2013) holding at Michael Okpara University of Agriculture, Umudike-Abia State (Nigeria). The conference is organized by African Association for Teaching and Learning (AATL); African Society for the Scientific Research (ASSR), Mediterranean Center for Educational Social Research (MCESR), and International Digital Organization for Scientific Information (IDOSI) in cooperation with other institutions.

ICSTE2013 is an international forum for those who wish to present their projects and innovations, having also the opportunity to discuss the main aspects and the latest results in the fields of Science, Technology, Education and Research. Our aim is to inspire and provoke crucial discussions and debates. The event boasts critical thinking and reconsiders policies and practices.

ICSTE2013 seek a diverse and comprehensive program covering all areas of science and technology teaching, learning and development. The program includes a wide range of activities designed to facilitate the exchange of expertise, experience, and resources amongst colleagues.

The ICSTE2013 is held at Umudike near Umuahia located in the South-East part of Nigeria. The event would bring together more than 400 delegates including teachers, scientists, technologists, policy makers and graduate students from across the globe to promote exchange and discussion of issues relating to the theme and sub-themes.

I, on behalf of AATL/ASSR and cooperating partners feel honoured to be hosting the conference in Nigeria. We look forward to seeing you the conference.

**Dr M.N. Modebelu**  
**Chair, Local Organising Committee**

## Aim and Objectives

International Conference on Science and Technology Education (ICSTE2013) is an interdisciplinary forum for the presentation of original peer-reviewed, contributed and invited articles to improve and enhance science and technology education at all levels worldwide. Topics covered can be categorized as *disciplinary* (biology, chemistry, physics, mathematics, computer science and engineering and the learning processes related to their acquisition and assessment of results), *technological* (computer, video, audio and print), and *organizational* (legislation, administration, implementation and teacher enhancement). Insofar as technology is playing an increasing role both in the understanding and the development of science disciplines and in the delivery of information, the journal includes it as a component of science education. The conference provides a stimulating and informative variety of papers geared toward theory and practice in the hope that common information shared among a broad coalition of individuals and groups involved in science education will facilitate future efforts. In addition to works in the fields mentioned above and case studies of exemplary implementations, the conference provides opportunity for exchange of ideas amongst scholars and professionals to help reach our common goal: excellence in science and technology education. The ICSTE2013 is a premier gathering of educators, professors, engineers, scientists, technologists, activists, administrators, innovators, policy makers, graduate students and others interested in sharing ideas, knowledge and experiences. The major objective is to provide a unique environment to sharing innovative practices, cutting-edge research and unique experiences as well as strategies.

## ICSTE 2013 Committee

The ICSTE Conference Committee is made up of the Advisory Board ; Scientific Committee and Local Organising Committee comprising a total of 60 members, seasoned scholars of international reputation from 30 different countries divided into several sub-committees.

### International Scientific Committee

**Prof. Gerhard Berchtold(Chair)**

Universidad Azteca, Mexico

**Prof. Erdal Toprakci**

Ege University, Turkey

**Prof. Addison M. Wokocho**

Teachers Registration Council, Nigeria

**Dr. Muhammad Zeeshan**

International Digital Organization for Scientific Information, UAE

**Professor Adriana Vizental**

University Aurel Vlaicu, Romania

**Prof. Yau Yuen Yeung**

Hong Kong Institute of Education, Hong Kong

**Prof. A. R. Sayfoo**

Vocational Training Institute, Mauritius

**Prof. Ali Simsek**

Anadolu University, Turkey

**Professor Florica Bodistean**

University Aurel Vlaicu, Romania

**Sir(Dr) Nkasiobi Silas Oguzor**

Federal College of Education (Technical), Omoku-Nigeria

**Prof. Leela Pradhan**

Tribhuvan University, Nepal

**Prof. Mohammad Nisar**

University of Malakand, Pakistan

**Dr. Mahwish Washeed**

International Islamic University, Pakistan

**Prof. Raphael C. Njoku**

University of Louisville, USA

**Prof. S.S. Lloyd**

West Coast University, Panama

**Prof. Timothy A. Falade**

New York Institute of Technology, Jordan

**Prof. Pedro Cravo**

International Association for the Scientific Knowledge, Portugal

**Prof. Hasan Basri Gunduz**

Sakarya University, Turkey

**Prof. B.V. Toshev**

University of Sofia, Bulgaria

**Prof. Aslam Adeeb**

Islamia University of Bahawalpur, Pakistan

**Professor Orhan Karamustafaoglu**

Amasya University, Turkey

**Professor izzet Kara**

Pamukkale University, Turkey

**Professor Sevilay Karamustafaoglu**

Amasya University, Turkey

**Dr Jacinta A. Opara(Secretary,ISC)**

European School Science Project, Granada-Spain

**Professor Hüseyin Bağ**

Pamukkale University, Turkey

**Prof. Pascal Mimero**

European Chemistry Thematic Network Association, Belgium

**Prof. Jesus Simal Gandara**

University of Vigo, Spain

**Prof. Alice Kagoda**

Makerere University, Uganda

**Prof. Adnan Riaz**

Allama Iqbal Open University, Pakistan

**Prof. Fernando Alberto Ferreira**

Polytechnic Institute of Santarem, Portugal

**Prof. Orifjan Namozov**

Prague Development Centre (PRADEC), Czech Republic

**Prof. Musharaf Khan**

University of Peshawar, Pakistan

**Prof. Luiela-Magdalena Csorba**

University Aurel Vlaicu, Romania

**Prof. Rajarshi Roy**

National Institute of Technical Teachers' Training and Research, India

**Prof. Samir Mohamed Alredaisy**

University of Khartoum, Sudan

**Prof. Gidey Yirga**

Makelle University, Ethiopia

**Mr. M. Ilyas Khan**

Bentham Science Publishers Ltd

**Dr. Ivan Genov**

Science and Education Foundation, Bulgaria

**Professor Oby Okonkwo**

Nnamdi Azikiwe University, Awka-Nigeria

**Prof. Afshan Akbar**

G.C. University, Pakistan

**Dr Anthonia U. Ejifugha**

Alvan Ikoku College of Education, Owerri, Nigeria

## Collaborating Journals

The best selected papers after a rigorous review process are to be published in any of the collaborating journals. All journals are international peer-reviewed, open access and widely indexed/abstracted. Authors of successful papers would be communicated after the conference.

Bulgarian Journal of Science and Education Policy (BJSEP)

Science Education Review (SER)

Contemporary Educational Technology (CET)

Academic Research International(ARINT)

International Greener Journals (IGJ)

International Journal of Academic Research in Business and Social Sciences (IJ-ARBS)

Mediterranean Journal of Social Sciences (MJSS)

International Journal of Humanistic and Social Studies (IJHSS)

Journal of Theory and Practice in Education (JTPE)

International Online Journal of Educational Sciences (IOJES)

International Journal of Instruction (IJI)

Eurasian Journal of Physics and Chemistry Education (EJPCE)

E-International Journal of Educational Research (E-IJER)

Turkish Journal of Qualitative Inquiry

Prime Research on Education (PRE)

International Review of Social Sciences and Humanities (IRSSH)

Journal of Educational and Social Research (JESR)

International Journal of Environmental and Science Education (IJESE)

Journal of Environmental Biology (JEB)

Ethiopian Journal of Education & Science(EJES)

International Journal of Environmental Science and Technology (IJEST)

Academic Journal of Cancer Research

Academic Journal of Animal Diseases

Academic Journal of Entomology

Academic Journal of Nutrition

Academic Journal of Oral and Dental Medicine

Academic Journal of Plant Sciences

Acta Parasitologica Globalis

Acta Science, Technology and Management  
Advances in Biological Research  
African Journal of Basic & Applied Sciences  
Agricultural Engineering Research Journal  
American-Eurasian Journal of Agronomy  
American-Eurasian Journal of Agricultural & Environmental Sciences  
American-Eurasian Journal of Crop Protection  
American-Eurasian Journal of Soil Sciences  
American-Eurasian Journal of Toxicological Sciences  
Applied Journal of Hygiene [AJH]  
Applied Biosciences [AB]  
Botany Research International  
British Journal of Poultry Sciences  
Computational and Applied Mathematical Sciences  
European Journal of Applied Sciences  
European Journal of Biological Sciences  
Global Journal of Biotechnology & Biochemistry  
Global Journal of Environmental Research  
Global Journal of Molecular Sciences  
Global Journal of Pharmacology  
Global Veterinaria  
International Journal of Medicine and Medical Sciences  
Journal of Medicinal Plant Research  
African Journal of Pharmacy and Pharmacology  
Journal of Dentistry and Oral Hygiene  
International Journal of Nursing and Midwifery  
Journal of Parasitology and Vector Biology  
Journal of Pharmacognosy and Phytotherapy  
Journal of Veterinary Medicine and Animal Health  
Journal of Toxicology and Environmental Health Sciences  
Clinical Reviews and Opinions  
International Journal of Nutrition and Metabolism  
Journal of AIDS and HIV Research  
Journal of Cancer Research and Experimental Oncology

Journal of Cell Biology and Genetics  
Journal of Clinical Immunology and Immunopathology Research  
Journal of Clinical Medicine and Research  
Journal of Clinical Pathology and Forensic Medicine  
Journal of Diabetes and Endocrinology  
Journal of Infectious Diseases and Immunity  
Journal of Medical Genetics and Genomics  
Journal of Medical Laboratory and Diagnosis  
Journal of Metabolomics and Systems Biology  
Journal of Neuroscience and Behavioral Health  
Journal of Physiology and Pathophysiology  
Journal of Public Health and Epidemiology  
Medical Case Studies  
Medical Practice and Reviews  
Research in Pharmaceutical Biotechnology  
Journal of Cell and Animal Biology  
African Journal of Biotechnology  
International Journal of Genetics and Molecular Biology  
Biotechnology and Molecular Biology Reviews  
African Journal of Microbiology Research  
African Journal of Biochemistry Research  
African Journal of Environmental Science and Technology  
African Journal of Food Science  
African Journal of Plant Science  
Journal of Ecology and the Natural Environment  
Journal of Entomology and Nematology  
Journal of Bacteriology Research  
Journal of Bioinformatics and Sequence Analysis  
Journal of General and Molecular Virology  
International Journal of Biodiversity and Conservation  
Journal of Biophysics and Structural Biology  
Journal of Evolutionary Biology Research  
Journal of Yeast and Fungal Research  
International Journal of Plant Physiology and Biochemistry

Journal of Brewing and Distilling

Journal of Computational Biology and Bioinformatics Research

Journal of Developmental Biology and Tissue Engineering

Journal of Microbiology and Antimicrobials

International Journal for Biotechnology and Molecular Biology Research

Journal of Plant Breeding and Crop Science

African Journal of Agricultural Research

Journal of Horticulture and Forestry

International Journal of Livestock Production

International Journal of Fisheries and Aquaculture

Journal of Development and Agricultural Economics

Journal of Agricultural Biotechnology and Sustainable Development

Journal of Agricultural Extension and Rural Development

Journal of Cereals and Oilseeds

Journal of Soil Science and Environmental Management

Journal of Stored Products and Postharvest Research

African Journal of Mathematics and Computer Science Research

African Journal of Pure and Applied Chemistry

International Journal of the Physical Sciences

Journal of Geology and Mining Research

Journal of Environmental Chemistry and Ecotoxicology

Journal of Internet and Information Systems

Journal of Oceanography and Marine Science

Journal of Petroleum Technology and Alternative Fuels

Journal of Engineering and Technology Research

International Journal of Water Resources and Environmental Engineering

Journal of Chemical Engineering and Materials Science

Journal of Civil Engineering and Construction Technology

International Journal of Computer Engineering Research

Journal of Electrical and Electronics Engineering Research

Journal of Engineering and Computer Innovations

Journal of Mechanical Engineering Research

Journal of Petroleum and Gas Engineering

Educational Research and Reviews



International Journal of Vocational and Technical Education  
International Journal of Science and Technology Education Research  
International Journal of Basic and Applied Virology  
International Journal of Clinical Pathology  
International Journal of Genetics  
International Journal of Microbiological Research  
International Journal of Nuts and Related Sciences  
International Journal of Pharmacy and Medical Sciences  
International Journal of Physics  
International Journal of Sustainable Agriculture  
Iranica Journal of Energy and Environment  
International Journal of Planetary & Space Research  
Journal of Animal Production Sciences  
Journal of Approximate Reasoning  
Journal of Forestry and Environment  
Journal of Horticultural Science & Ornamental Plants  
Journal of Industrial Technologies and Sustainable Environment  
Journal of Oceanography and Marine Environmental System  
Journal of Physical Chemistry and Electrochemistry  
Prime Journal of Microbiology Research  
Prime Research on Medicine  
Prime Research on Biotechnology  
Journal of Reproduction and Infertility  
Journal of Statistics and Biometry  
Journal of Theoretical & Applied Statistics  
Libyan Agriculture Research Center Journal International  
Middle East Journal of Scientific Research  
Plant Pathology International  
Plant Physiology Research  
Research Journal of Earth Sciences  
Research Journal of Zoonosis  
Studies in Nonlinear Sciences  
World Applied Sciences Journal  
World Engineering & Applied Sciences Journal

World Information Technology Journal  
World Journal of Agricultural Sciences  
World Journal of Alternative Medicine  
World Journal of Chemistry  
World Journal of Computer Sciences  
World Journal of Dairy & Food Sciences  
World Journal of Environmental Pollution  
World Journal of Fish and Marine Sciences  
World Journal of Fungal and Plant Biology  
World Journal of Immunology  
World Journal of Medical Sciences  
World Journal of Nano Science & Technology  
World Journal of Natural Products Research  
World Journal of Nursing Sciences  
World Journal of Zoology

### Vision of the Conference

The ICSTE is a global event with the mission of furthering the advancement and innovation in engineering, technology, science, agriculture, teaching, learning, industry, and development. The Conference serves as a means to connect and engage professors, engineers, technologists, researchers, consultants, innovators, managers, policy makers and others. The event offers an opportunity to meet and share ideas. It also inspire a new generation of global scientists and technology leaders in countries around the world.

### CALL FOR PAPERS AND PANELS

Proposals are invited taking into consideration the motto, theme and sub- themes of the Conference. All proposals must be full texts. **We don't welcome only abstracts.** (See paper submission for details). The proposal's originality, its relationship to the Conference theme and the clarity of its objectives, organization and approach are factors considered in selection.

#### CONFERENCE THEME

**Myths and Realities in Science and Technology Education**

#### SUB-THEMES AND TOPICS

- Historical Foundations of Science and Technology
- philosophy of Science and Technology in relation to educational issues
- Research and reviews of research in science and Technology education
- Curriculum, Science and Technology

- Economics of Science Education
- Psychological Issues in Science and Technology Education
- Gender, Science, Technology Education
- Culture, Science and Technology
- Effective practice in the teaching of science and Technology
- Analyses of issues of direct relevance to science and Technology education
- Classroom management in science and Technology education
- Assessment and evaluation in science and Technology education
- Teacher training in Science and Technology education
- Learning Strategies in Science education
- Educational Policy for Science and Technology
- Primary School science
- Food Science and Technology
- Fine and Applied Arts
- Science and Technology Policy
- Civil Engineering
- Mechanical Engineering
- Chemical Engineering
- Electronics/Electrical Engineering
- Computer Science
- Information Technology
- Library Science and Media Technology
- Project Management Technology
- Agricultural Science
- Adult Education for Science
- Conceptual understanding in Science and Technology education
- misconception and misunderstanding in Science and Technology education
- Curriculum development in Science and Technology education
- Formal and informal Science and Technology education
- Earth science education
- Science and Technology Subjects in Secondary Schools
- Science Teacher education
- Vocational Teacher Education
- Technical Teacher Education
- Science, Technology Education and Sustainability
- Engineering Education
- Water Education
- Vocational Education
- Technical Education
- Mathematics Education

- Statistics Education
  - Educational Technology
  - Agricultural Science Education
  - Biology Education
  - Chemistry Education
  - Physics Education
  - Home Science/Management
  - Integrated Science Education
  - Health Education and Safety
  - Mathematics Education in relationship to Science and Technology education
  - Comparative Science and Technology education
  - Science and Technology Projects
  - Internationalization of Science and Technology
  - Education for a Sustainable Development including Human Rights
- Social issues in Science & Technology Education
  - Science education and institutional religion, and how this is negotiated in schools
  - ICT, E-learning, distance education, smart schools, and science and technology education
  - Links between STE and Epistemology,
  - Socio-scientific issues in Science & Technology Education
  - Learners and Teachers' Conceptions and Competences in Science & Technology Education
  - Curricula and school textbooks in Science & Technology Education
  - Evaluation in Science & Technology Education
  - Practices and Didactic engineering in Science & Technology Education
- New Trends and Approaches in Science Education
  - Learning and Teaching in Science Education
  - Nature of Science and Scientific Literacy
  - Assessment and Evaluation in Science Education
  - Pre-service and In-service Science Teachers Education
  - Informal-Outdoor Education
  - Science Curriculum and evaluation
  - ICT in Science Education
  - Discussions of Environmental, Science, and Technology Education Issues
  - Cognition and Instruction
  - Environmental & Geographical Education
  - Learning Environment
  - Sustainability Education
  - Science and Literacy
  - Teacher Training/Education
  - Instructional Design, Teaching Materials and Strategies
  - Using Technology in Environmental & Science Education

- Cultural Studies in Environmental & Science Education
- Pedagogical Issues and Teaching/Learning Strategies
- Educational Technology
- Distance Education/Learning
- Computer Assisted Learning/Teaching
- Web Based Instruction/Training
- Metaphors, Analogies, Models, and Simulations for Teaching and Learning
- Qualitative Research and Methodologies

### **Who Should Attend**

This is an excellent opportunity for scholars to come together from all over the world to share their works, experiences and ideas by presenting paper or by simply observing, and as with all likely events, there will be a number of programs and activities.

The Conference attracts a range of science educators, engineers, technologists, scientists, researchers, innovators, teachers, students, activists, administrators, professionals and others. Attendees join together to share ideas, experiences, views and their passion for quality teaching and learning.

If you want to chair a session, organize a panel, evaluate papers to be published in the congress proceeding, books or journals, contribute to the editing or any other offer to assist, please send an email to the secretariat.

### ***Corporate Participation***

As a global event for the advancement and innovation in learning, industry and technology a wide range of opportunities are available to present research-oriented/industrial papers. Corporate bodies can showcase and market their products and services. For information about corporate showcases and other corporate activities, please contact the secretariat.

## **Important Dates**

- **Submission Deadline**  
*Until July 31, 2013*
- **Registration Deadline**  
*Early Bird: Until April 30, 2013*  
*Late: As from 1<sup>st</sup> May, 2013*

## **Conference Venue**

ICSTE2013 will take place at Michael Okpara University of Agriculture, Umudike-Abia State, Nigeria.

### **General Submission Information**

The Scientific Committee of the ICSTE2013 accepts only full-texts (ie abstracts and main text) together as proposals. All proposals must be in **English**. All proposals must adhere strictly to the instructions for

formatting their submissions. Please see guidelines for presentations. All proposals must be accompanied with **Proposal form**. All submissions are subject to a blind review process. Papers submitted after **July 31, 2013** may not be published in the Conference Proceedings.

### Categories of Presentation

The Technical Program of the Conference includes a wide range of submissions and activities designed to facilitate the exchange of ideas and information:

- Keynote Speakers/Invited Speakers
- Academic Papers
- Posters
- Tutorials
- Best Practices
- Roundtables
- Showcases
- Workshops
- Symposia

**Note:** Authors who are unable to attend will have the conference materials posted to their addresses immediately after the Conference. Please contact the conference secretariat for more details.

### Submission Requirements

- Please see the guideline( **see Information for Authors**)
- All proposals must be in English.
- At least an author of each paper must be registered and pay the appropriate Conference fee.
- All communication will be with the corresponding author.
- Participants who registered for the Conference but unable to attend will have the Conference materials mailed to their registered contact address.
- All presenters must present at the time scheduled by the Committee. Requests for specific time slots will not be accepted
- The Conference provides basic equipment for presenters.
- ICSTE can offer limited financial support for participation.
- All Participants must pay appropriate Conference registration fee. However, we strive to keep our registration fee low for all attendees.
- Presentations that advertise commercial products will not be accepted. However, if you have a commercial product to show case, for exhibition or marketing, please contact the secretariat.

### 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 **July 31, 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: **editoricste@gmail.com**

### **Selection Criteria**

All proposals (in English) are selected on basis of clarity, quality and relevance to the Conference theme and Sub- themes. A blind review process will be used to evaluate all submissions. ICSTE regrets that it cannot select all proposals submitted. It should not be assumed that prior participation in our event guarantees selection for ICSTE2013. Space is limited.

### **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.

### **Best Paper Awards**

A sub-committee on Best Paper Awards will consider outstanding presentations for several designated awards. The yardstick is quality, innovation and application. All accepted papers are eligible for consideration. There will be an Award for Outstanding Student Paper. Award winning papers will receive certificates and will be highlighted in future ASSR/AATL events.

### **Registration Fee**

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\$200	N30000
<i>Registration at Venue</i>	US\$250	N35000
Corporate Participation	US \$300	N50000
Membership Registration	US \$40	N5500

**The bank transfer is the method of payment. Please see the Conference registration form for details.**

**NB: Delegates resident in Nigeria can pay into the bank details below.**

**Name of Bank Account: Beverly Resources**

**Bank Account No: 1015407653**

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

**Subject: ICSTE2013**

### **Entitlement of Registered Delegates**

- Entry to all sessions of the Conference
- Conference bag/tag
- Conference gift items
- Coffee breaks
- Certificate of Participation
- Certificate of Authorship (paper presenters only)
- Congress programme
- Admission to social/cultural/tourist activities
- Conference proceedings
- Invoice / receipt of payment
- Cocktail of the Conference
- Special hotel booking at discounted rate
- Onsite wireless network
- Technical support
- Conference group Photos

## **Conference Programme (Draft)**

### ***Monday, 12 August 2013: Opening Ceremony and Conference Work***

9.15	Registration continued
9.45 – 10.15	Coffee/tea break
10.15 – 13.30	Opening/ Keynote Speakers/Invited Speakers
13.30 – 14.30	Lunch
14.30 – 19.30	Plenary Sessions/Panels/Exhibition

### ***Tuesday, 13 August 2013: Conference Work***

9.00 – 11.00	Plenary Sessions/Roundtables/Showcases
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11.00 – 11.15	Coffee/tea break
11.15 – 13.30	Plenary Sessions/Posters
13.30 – 14.30	Lunch
14.30 – 18.30	Plenary Sessions/Panels
18.30 – 19.30	Workshops/Tutorials

***Wednesday, 14 August 2013: Conference Work***

9.00 – 11.00	Plenary Sessions/Roundtables/Showcases
11.00 – 11.15	Coffee/tea break
11.15 – 13.30	Plenary Sessions/Posters
13.30 – 14.30	Lunch
14.30 – 18.30	Plenary Sessions/Panels
18.30 – 19.30	Workshops/Tutorials

***Thursday, 15 August 2013: Conference Work/Closing/Tour and Dinner***

9.00 – 11.00	Plenary Sessions/Roundtables/Showcases
11.00 – 11.15	Coffee/tea break
11.15 – 12.30	Plenary Sessions/Presentation of Certificates/Awards
12.30 – 13.30	Closing/Group Photos/Exchange of Gifts
13.30 – 14.30	Lunch
14.30 – 18.30	Cultural Tours/Visits
20.00	Farewell Cocktail/Dinner

***Friday, 16 August 2013: Departure***

Departure
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**Publication**

Each paper will be included in conference programme. Authors of all selected papers will have their works published in the Conference proceedings with ISBN/ISSN. 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\$45 to US\$125 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.

### **Insurance and Inoculations**

Visitors entering Nigeria require travel/health insurance and some medical inoculations according to immigrations laws. International participants should contact the nearest Nigerian Embassies/High Commissions/Consulates and the requirements for travel/health insurance and inoculations.

### *Airport Shuttle Bus*

Aiming at assisting delegates to quickly move from Owerri Airport to the Conference venue, the ICSTE Committee organizes a shuttle. Please contact the secretariat for the shuttle schedule and arrangements.

### **Adverting and Exhibitions**

The ICSTE welcomes requests for placing adverts on their event website, 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.

## **Contact Information**

For more information or clarification on any aspect of the Conference, please contact the conference organizers(**Dr M.N. Modebelu**, Co-Chair, ICSTE2013 International Scientific Committee, Tel: **+2348035050452**; email:**editoricste@gmail.com**)