



International Conference on Science and Technology Education (ICSTE2012)

Owerri-Nigeria

October 22-26, 2012

Preamble

We are pleased to invite you to the International Conference on Science and Technology Education (ICSTE2012) holding at Alvan Ikoku Federal College of Education, Owerri (Nigeria). The conference is organized by African Association for Teaching and Learning (AATL); African Society for the Scientific Research(AASR), Mediterranean Center for Social and Educational Research(MCSER), Human Resource Management Academic Research Society(HRMARS), Prague Development Center(PRADEC), Indian Society for Education and Environment and International Digital Organization for Scientific Information(IDOSI) in cooperation with other institutions.

ICSTE2012 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 Education and Research. Our aim is to inspire and provoke crucial discussions and debates. The event boasts critical thinking and reconsiders policies and practices.

ICSTE2012 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 ICSTE2012 is held in the Eastern Heartland City of Owerri located in the South-East part of Nigeria. The event would bring together more than 1000 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 Anthonia U. Ejifugha

Chair, Local Organising Committee

Aim and Objective

International Conference on Science and Technology Education (ICSTE2012) 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 ICSTE2012 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 2012 Committee

The ICSTE Conference Committee is made up of the Advisory Board and Scientific Committee comprising a total of 80 members, seasoned scholars of international reputation from 45 different countries divided into several sub-committees. Professor Gerhard Berchtold is Chairman of the ICSTE2012 International Scientific Committee.

International Scientific Committee

Prof. Gerhard Berchtold (Chair)

Universidad Azteca, Mexico

Prof. Natarajan Gajendran

Indian Society for Education and Environment, India

Prof. Erdal Toprakci

Cumhuriyet University, Turkey

Prof. Addison M. Wokocha

Teachers Registration Council, Nigeria

Dr. Muhammad Zeeshan

International Digital Organization for Scientific Information, UAE

Professor Adriana Vizental

University Aurel Vlaicu, Romania

George Kofi Amoako

Central University College, Accra-Ghana

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

Dr. Nkasiobi Silas Oguzor

Federal College of Education (Technical), Omoku-Nigeria

Prof. Leela Pradhan

Tribhuvan University, Nepal

Prof. Mohammad Nisar

University of Malakand, Pakistan

Prof. Peter Eastwell

The Science Education Review, Australia

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

Prof. Orhan Karamustafaoğlu

Amasya University, Turkey

Prof. İzzet Kara

Pamukkale University, Turkey

Prof. Sevilay Karamustafaoğlu

Amasya University, Turkey

Dr Jacinta A. Opara(Secretary,ISC)

European School Science Project, Granada-Spain

Prof. 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 Khartoun, 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

Prof. Eddie Blass

Swinburne University of Technology, Australia

Dr. Hassan Danial Aslam

Human Resource Management Research Society (HRMARS)

Prof. Benedicta Egbo

University of Windsor, Canada

Dr. Anthonia U. Ejifugha (Chair, LOC)

Alvan Ikoku College of Education, Owerri, Nigeria

Organization and Partners

**African Association for Teaching and Learning (AATL) and
African Society for the Scientific Research (ASSR)**

With the Support and Cooperation of

International Association for the Scientific Knowledge, Portugal

Indian Society for Education and Environment, India

Universidad Azteca, Mexico

Universidad Central de Nicaragua, Nicaragua

Asia Pacific Forum on Science Learning and Teaching, Hong Kong

European Chemistry Thematic Network Association, France

Federal College of Education (Technical), Omoku-Nigeria

Afro-Euro Centre for Development Studies, Spain

SAVAP International

Maxwell Scientific Organization, United Kingdom

International Digital Organization for Scientific Information, UAE

Development Africa Consortium

Beverly Resources

Science and Education Foundation, Bulgaria

Prague Development Centre, Czech Republic

Vocational Training Institute, Mauritius

KRE Publishers, India

Mediterranean Center for Educational and Social Research, Rome-Italy

European School Science Project, Spain

International Association for the Study of the Commons (IASC)

Centre for Environment and Community Development, Nigeria

International Association for Teaching and Learning, Spain

Academic Journals Ltd

Human Resource Management Research Society (HRMARS), Pakistan

Integrated Publishing Association, India

Bentham Science Publishers Ltd

International Network on Science and Technology

Pakistan Reading Association (PRA)

Alvan Ikoku Federal College of Education, Owerri-Nigeria

European Scientific Institute, United Kingdom

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)
- Indian Journal of Science and Technology
- 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 (IJ)
- 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
- <http://idosi.org/aeja/aeja.htm>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

Mandate 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

Science and Technology Education in a Changing Environment

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, 2012
- **Registration Deadline**
Early Bird: Until March 31, 2012
Late: As from 1st April, 2012
- **Conference dates**

October 22-26, 2012 (Owerri-Nigeria)

Conference Venue

ICSTE2012 will take place at Alvan Ikoku Federal College of Education, Owerri- Imo State, Nigeria.

General Submission Information

The Scientific Committee of the ICSTE2012 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, 2012** 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, 2012 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 icste2012@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 ICSTE2012. 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

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.

Registration Fees

Full Registration	USD150
Late registration	USD170
Student Registration	USD50
Accompanying Person	USD75

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

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, 22 October 2012: 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, 23 October 2012: 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

Wednesday, 24 October 2012: 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, 25 October 2012: 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, 26 October 2012: Departure

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 in Port Harcourt. Price of accommodation ranges from US\$35 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 Port Harcourt or Owerri Airport to the Conference venue, the ICSTE Committee organizes a shuttle. Please contact the secretariat for the shuttle schedule and arrangements.

Sponsorship and Donations

The ICSTE 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 programme and/or website.

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 Jacinta Agbarachi Opara**, Co-Chair, ICSTE2012 International Scientific Committee, email: icste2012@gmail.com