



Proceedings of International Conference on Environmental Studies and Research(ICESR2012)

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Port Harcourt-Nigeria**

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Dr Jacinta Agbarachi Opara

Convenor

International Conference on Agriculture, Science and Engineering(ICASE2012)

Keynote Speakers



Professor Manas Mohan Adhikary, born in November, 1951, graduated in agricultural science from the then newly created State Agricultural University, Bidhan Chandra Krishi Viswavidyalaya of West Bengal, in 1974 with distinction. He persuaded for his Post-Graduate education in Agricultural Extension, the fast emerging discipline in agricultural sciences at that time in India. He started his teaching carrier in 1980 and kept on adding to a new class of teaching pursuits, wherein student started contributing as a stake holder of the entire teaching learning process. He has become the Head, Department of Agricultural Extension and lifted up the Department to a new level of well organised and orchestrated extension academia and subsequently the brighter students from the department started coming out to contribute to the National and International Level. He made a revolutionary change in class room and laboratory facility in the Department as Head and made a huge face lift in the Faculty infrastructure as Dean, Faculty of Agriculture..In course of his continuous escalation in his career, he worked as Director of Extension Education, Dean, Faculty of Agriculture, Registrar and the Vice-Chancellor, Bidhan Chandra Krishi Viswavidyalaya (State Agricultural University)..While extension education has become his obsession, he made a huge contribution in this area and created land mark achievements in configuring new models for field extension and technology socialization process. All his experiences and mettle helped him publish 70 numbers of research papers, appreciated at both National and International level. He has authored 18 number of Books for the academic cultivation of the new minds appearing in extension science and furthering the extension research to set a new model and structure towards making the farmers in India, self reliant, enterprising and innovative in their own lives, precisely, and in general, making our nation a strong and decisive global player in the World market.He has added the grace to his carrier by becoming members as well as experts in different academic and management bodies of national and international organisations, consisting of University Selection Committee, Ph.D. committee, Extension and Research Council of different University, Councillor of West Bengal Council of Higher Secondary Education, West Bengal State Electricity Regulatory Committee. He has also become life member of different academic and management Journals, both at National and International Level. He has already chaired a series of International Conference in India and Abroad and has already been honoured to Chaired the session on Dynamics of changing rural livelihood: culture and cultivation in IUAES Congress, Manchester, UK in 2013.As to earn an International experience and to make a distinction of presence, he has visited China, Japan, USA, Australia, Bangladesh and Thailand on academic mission.



Professor Hector F. Rucinke is a Colombian geographer formed at the advanced level in the United States (Ph.D., Michigan State; M.Sc., Wisconsin-Madison). He did his undergraduate training in his home country where he earned a B.A. and a doctorate degree in social sciences. Education was central to his long and outstanding professional career, first in helping to modernize the curricula and teaching methodology of the geography section at his own university in Colombia, and then for the first time developing in the early 80s a graduate geography project. He was also a visiting professor for two years at Louisiana Tech University, Ruston, Louisiana, USA. He is well-recognized for the development of geography as a professional career, through actions that include the founding of the Association of Colombian Geographers (ACOGÉ) as well as the approval of legislation to recognize and protect geographers as distinct professionals of university origin. He has received the Colombian Geography Prize and was appointed Honorary Individual Member of the Pan American Institute of Geography and History, among

several other distinctions. After retirement from the UPTC University at Tunja, Colombia, Dr. Rucinke has served as visiting adjunct professor of geography at the University of Cordoba, in the Colombian Caribbean, where he helped to establish a geography department that offers both undergraduate and master's programs and performs research and extension work. Besides that, he is particularly active in research and publication, an effort which has yielded the development of a web portal named <http://www.geografiaenespanol.net> dedicated to bring geography in translation to the Spanish-speaking world community, as well as the publication of *GeoTropico* (<http://www.geotropico.org>), a scientific journal specializing in the world-wide diffusion of scholarly writing related to the tropical realm. Currently, Dr. Rucinke integrates a team with two of the most distinguished Spanish and Mexican scholars to design and implement an international journal for the Spanish-speaking geographical community comparable to those published in English, French and German. His own personal research concentrates at the present time on a three-year project dealing with the historical geography of lowland settlement in northwestern South America with the purpose of explaining the persistence of homogeneous communities of settlers of African ancestry since colonial times



Professor Gerhard Berchtold is Professor, Dean and Vice-Director of International Strategic Development of Universidad Atzeca-Mexico. Gerhard Berchtold earned degrees in International Management, Higher Education Management, Environmental Decision Making, Environmental Technology, Business Administration, Public Administration, Environmental Policy, Education, and Law. An Austrian scholar, management consultant, environmental policy advisor and an expert on environmental technology, waste and environmental management, Prof. Berchtold was professor and director of the School of Environmental and Waste Management at Universidad Central de Nicaragua. Since the 1980s, Professor Berchtold has held a wide range of professional management and policy management experience, as well as distance education management and lecturing, research and consulting experiences especially in the areas of waste management, environmental policy, soil and groundwater remediation, general management and strategic and transnational higher open and distance education management. Professor Berchtold has linguistic proficiency in German, English, Italian, Spanish and French. He has served the Austrian national Parliament (1990-2002) and the European Parliament (1995-1996) as consultant and assistant, was a full-vote member of the Austrian Superfund Commission (Altlastensanierungskommission 1995-1999) and headed the environmental legislation working-group of the branch of waste and waste water management within the Federal Economic Chamber of Austria WKO (2000-2005), he used to be the administrative and political director of an independent fraction of the Tirol State Legislature (2005-2008). He has won awards including the Austrian annual prize for environment and public administration proposals, *Oekomanager 2000*, and is also a Salzburg Seminar alumnus (Environment and Diplomacy, 1994). He has published numerous publications and contributed substantially to both, environmental and waste management at the operational level in terms of projects, facilities and technologies, as well as to formulation, development and implementation of environmental law.



Uri Zoller is a Research prof. (Emer.) at the faculty of Natural Sciences, the department of Biology teaching at Haifa University – Oranim in Israel. He holds an Ed.D from Harvard University (1973) and a D.Sc from M.I.T (USA) – Technion Israel (1974). Since then, over four decades, he has carried out important work in organic and environmental chemistry published in the leading journals of the fields, alongside a sustained and purposeful effort to persuade the chemistry education community of the need to change the direction of teaching at both the secondary and the tertiary levels. His position is that science education should have as its major goal the preparation of students to be socially responsible citizens, having the ability to make rational value judgments and decisions. His work has focused on the fostering of this change by implementing related research-based innovations in the ways science is to be taught and science teachers are to be educated, as well as on changing the nature of the curriculum itself, via the development and implementation of innovative teaching and assessment strategies that emphasize and proved to work– critical/evaluative system thinking, for building students' capabilities of problem solving and decision making, and transfer for action. In addition to the campaign to change the philosophy of science education, he also did extensive

work on science education for sustainability in the Science-Technology-Environment-Society (STES) interface context, another important aspect of the current educational scene. Over the period of his work in this area, these ideas have become mainstream in chemistry education and adopted as guiding principles by many workers, worldwide. It is important to note that when he started, these were novel ideas; their acceptance now is due in no small measure to the dedicated and sustained work carried out by Uri and his colleagues, and the dissemination of these ideas both in their many papers in the leading journals of the field and at international conferences. The importance of this work and his crucial contributions to its development has been widely recognised. He was awarded the NARST Classroom Application Award (1987), and more recently, the Gold Medal of the Division of Environmental Chemistry and Cultural Heritage of the Italian Chemical Society (2005). He has also been invited, as a Visiting Professor to various universities, such as Kings College, London, New York University, the Swiss Federal Institute of Technology, the Australian National University and the University of Karlsruhe. His work is prolific and internationally visible. His excellence and scholarship are evidenced through publications (220+ papers and 9 books), as well as numerous national and international presentations.



Professor Natarajan Gajendran is a Faculty member of Presidency College, who holds doctorate from the University of Madras (1988). He is a specialist in Radiation Biology, Environmental microbiology and Environmental biomonitoring. Prof. N. Gajendran worked as senior Scientist in Department of Atomic Energy, India for 15 years. As HICARE Awardee (1998), Dr. Gajendran was invited to study A-bomb exposed cases and the effect of monoenergetic neutrons in Hiroshima Medical University, Japan. He has authored the monograph “Plant diversity of Kalpakkam (DAE, 2003)” and established digital herbarium for reference. Dr. Gajendran left India, to work as Professor of Biology in East Africa under educational reconstruction project and actively participated in establishing colleges for Engineering, Science, Social Sciences and Education. He has established the Indian Society of Education and Environment (an NGO). He is the Founder and Editor of an international, peer reviewed, open access journal “Indian Journal of Science and Technology” (www.indjst.org) and “Teachers dot com Teaching Transactions” (www.teachersdot.com) a magazine for school education. He has also published over 60 articles in scholarly journals.

Dr. Gajendran is also a recipient of several awards at National level including “BARC-Technical Excellence Award (1993)” for synthesizing labelled biomolecules for tracer studies, “Asiriar Chemmal “ (Best Teacher) (2010) and “Shiksha Shree” (2011) Awards for outstanding contribution in Education, Extension and Environment. He was the President (GESIS2010) of International Conference in 2010 on “Global Environment and its Sustainability: Implications and Strategies” during Nov 7th in Chennai, India and Nov 25-29 in Bangkok, Thailand (<http://indjst.org/archive/vol.3.issue.11-12/GESIS2010-Part-I-II.pdf>), (<http://indjst.org/archive/vol.4.issue.3/mar11-pages159-265.pdf>) (<http://indjst.org/archive/vol.4.issue.3/mar11-pages159-265.pdf>). Driven by the mission of breaking the Digital divide and preserving nature, Dr. Gajendran strives bridging regional knowledge and cultures into global education for green progress. He strongly believes that the Future world for our younger generation largely depends on knowledge sharing and preserving our greeneries.

Programme of Event(Draft)

Monday 3rd September

08:00 – 09:30	Registration
09:30 – 11:45	Welcome Ceremony
11:45 – 14:30	Special Sessions
14:30 – 14:45	Lunch Break
14:45 – 16:45	Special Sessions
16:45 – 17:15	Coffee Break
17:15 – 18:00	Plenary Sessions
20:30---10:30	Welcome Cocktail

Tuesday 4th September

08:30 – 10:00	Special Sessions
10:00 – 10:30	Coffee Break
10:30 – 13:30	Plenary Sessions
13:30 – 14:45	Lunch Break
14:45 – 16:45	Plenary Sessions
16:45 – 17:15	Coffee Break
17:15 – 18:45	Plenary Sessions

Wednesday 5th September

08:30 – 10:00	Special Sessions
10:00 – 10:30	Coffee Break
10:30 – 13:30	Plenary Sessions
13:30 – 14:45	Lunch Break
14:45 – 16:45	Plenary Sessions
16:45 – 17:15	Coffee Break
17:15 – 18:45	Plenary Sessions

Thursday 6th September

08:30 – 10:00	Special Sessions
10:00 – 10:30	Coffee Break
10:30 – 13:30	Plenary Sessions
13:30 – 14:45	Lunch Break
14:45 – 16:45	Plenary Sessions
16:45 – 17:00	Coffee Break
17:00 – 18:00	Special Sessions/Communiqué
18:00 – 19:00	Closing Sessions

Friday 7th September

Departure

Forward

I have the pleasure to furnish you herewith the Proceedings which herein contains a collection of the papers presented at International Conference on Environmental Studies and Research(ICESR2012) organized by African Society for Scientific Research and African African Association for Teaching and Learning in cooperation with several partners and collaborating journals in the international community.The conference was held September 3-7, 2012 at Rivers State University of Science and Technology, Port Harcourt, Nigeria.

The ICESR series is an academic activity for interested scholars,scientists, technologists, policy makers, corporate bodies and graduate students.The aim of the conference is to diffuse research findings and create a conducive environment for scholars to debate and exchange ideas that lead to development in Agriculture, Science, Technology and Engineering.

Following the call for papers by the International Scientific Commission, papers we received more than 700 proposals from 55 different countries from all continents.As a commitment to the vision and mission of academic excellence and integrity, each paper was anonymously reviewed by two members of the editorial sub-committee of the Commission.This book of proceedings contains a selection of the papers presented at the conference.

We wish to express our sincere thanks to the Governing Council, Management and Senate of the Rivers State University of Science and Technology for providing the venue and facilities for the conference and for being committed to towards ensuring the success of the conference by setting up a high powered Adhoc Local Organising Committee led by Dr Sodiemye A. Abere. We thank the staff and students of the institution for their cooperation and support for the project.We express our profound gratitude to all and sundry especially our Special Guests, delegates, reviewers, the media, the Nigerian foreign missions and all the cooperating partners for their contributions in promoting this noble academic event.

Please read on!!!

Dr Jacinta Agbarachi Opara

Convenor,International Conference on Environmental Studies and Research(ICESR)

and

Visiting Associate Professor,Universidad Azteca,Chalco-Mexico