



INTERNATIONAL CONFERENCE ON INFRASTRUCTURE DEVELOPMENT AND THE ENVIRONMENT (ICIDEN-ABUJA 2006)



ISEG

SHERATON HOTEL CONFERENCE CENTER
Ladi Kwali Way, Maitama, Abuja, Nigeria, September 10-15, 2006



CALL FOR ABSTRACTS, COLLABORATION AND EARLY REGISTRATION

DEADLINE FOR SUBMISSION OF ABSTRACTS: FEBRUARY 25, 2006
<http://www.iseg.giees.uncc.edu/abuja2006>

Sponsoring Host: International Society for Environmental Geotechnology (ISEG)



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UNC Charlotte, NC, USA



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United Nations International Strategy for Disaster Reduction
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SYKE

INVITATION STATEMENT, PURPOSE AND HISTORY OF THE CONFERENCE SERIES

The International Conference on Infrastructure Development and the Environment is the eighth in the series of sustainable development conferences initiated by the International Society for Environmental Geotechnology (ISEG) in San Diego, California, USA in 1993. Following INCEED 2005 in Charlotte, USA in 2005, ICIDEN ABUJA 2006 will convene infrastructure development experts, environmental professionals, educators, basic and applied scientists and policy-makers in economic sectors such as mining/natural resources, petrochemicals development, agriculture, transportation and civil/industrial construction to present new information, and formulate and debate both planning and implementation schemes aimed at addressing the development mechanisms, technologies, enabling policies and environmental impacts of industrial/civil activities. This will be the first ISEG Conference in Africa. These events typically draw an average of 500-800 participants from more than 50 countries. The event rotates from one country to the other every two years (sometimes, intermediate-year conferences are also held). Previous conferences were held in San Diego - USA (1996), Boston - USA (1998), Nanjing - China (1999), Belo Horizonte - Brazil (2000), Tokyo - Japan (2001), Seoul - South Korea (2002), Helsinki, Finland (2004), and Charlotte - USA (2005). At the INCEED 2005 conference held from July 24 to 30, 2005 in Charlotte, USA, more than 600 researchers, politicians, educators, students and corporate officials made presentations. Ministers, governors, commissioners, oil and energy company representatives participated. The choice of Abuja as the venue for the next conference will provide an opportunity for experts and other participants from technologically advanced countries to interact with an enlarged set of regional experts and other participants from developing countries. ISEG, UNESCO, JICPS/ Consortium of University of Wisconsin Professionals, The American Embassy in Nigeria, UNIDO, the Global Institute for Energy and Environmental Systems of the University of North Carolina, Charlotte, the University of Calabar, Nigeria and other collaborators welcome additional collaborators on this event. After the ICIDEN-ABUJA conference in 2006, future conferences will be held in Slovenia (2007), Ghana (2007) and Hong Kong (2008) as summarized below.

FUTURE EVENTS

2007 - International Conference on Waste Management, Ljubljana, Slovenia

Chairperson: Dr. Joze Kortnik, Department of Geotechnology and Mining, Faculty of Natural Sciences and Engineering, University of Ljubljana, Ljubljana, Slovenia (email:joze.kortnik@uni-lj.si, Fax:+386 1 25 24 105)

2007 - First International Conf. on Environmental Research, Technology and Policy on Africa (ER TEP2007), Accra, Ghana, Africa

Chairperson: Prof. Ernest K. Yanful, Chair, Department of Civil Engineering, University of Western Ontario, Canada N6A 5B9 (eyanful@eng.uwo.ca)

2008 - 9th International Symposium on Environmental Geotechnology and Global Sustainable Development, Hong Kong, China

Chairpersons: Dr. Albert Yeung, Department of Civil Engineering, University of Hong Kong, China (eyeungat@hkuc.khu.hk) and Dr. Irene Lo, Department of Civil and Environmental Engineering, Hong Kong University of Science and Technology, China (email: cemlo@ust.hk)

PAST EVENTS

2005 - International Conference on Energy, Environment and Disasters (INCEED), Charlotte, USA

Chairperson: Prof. Hilary I. Inyang, University of North Carolina, Charlotte, USA

2004 - 7th International Symposium on Environmental Geotechnology and Global Sustainable Development, Helsinki, Finland

Chairperson: Dr. Jouko Saarela, Finnish Environmental Institute, Helsinki, Finland

2002 - 6th International Symposium on Environmental Geotechnology and Global Sustainable Development, Seoul, South Korea

Chairpersons: Dr. Won-Pyo Hong, Chung-Ang University, Seoul, Korea

2001 - International Symposium on Application of Natural Materials for Environmental Geotechnology, Tokyo, Japan

Chairperson: Prof. Hideo Minato, University of Tokyo, Japan

2000 - 5th International Symposium on Environmental Geotechnology and Global Sustainable Development, Belo Horizonte, Brazil

Chairperson: Prof. T. Cassia de Brito Galvão, Universidade Federal de Minas Gerais, Belo Horizonte, Brazil

1999 - 1st International Symposium on High Altitude and Sensitive Ecological Environment, Nanjing, China

Chairperson: Prof. Shi Bin, Nanjing University, China

1998 - 4th International Symposium on Environmental Geotechnology and Global Sustainable Development, Boston, USA

Chairperson: Prof. Hilary I. Inyang, University of Massachusetts, Lowell, USA

1996 - 3rd International Symposium on Environmental Geotechnology and Global Sustainable Development, San Diego, USA

Chairpersons: Prof. H. Y. Fang and Prof. Hilary I. Inyang, University of Massachusetts, Lowell, USA

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- **Prof. Thomas Zimmie**, *Professor of Civil & Environmental Engineering, Rensselaer Poly. Institute, Troy, NY, USA and Councillor ISEG (zimmitt@rpi.edu)*

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HONORARY CHAIR'S REMARKS

On behalf of ISEG, collaborating organizations and the International Committee for ICIDEN Abuja 2006, I applaud the selection of Nigeria, Africa's most populous country, as the host of the next ISEG conference, following previous conferences in the United States (1996, 1998, and 2005), China (1999), Brazil (2000), Japan (2001), Korea (2002) and Finland (2004). The decision to hold this global event in Africa shortly after the last United Nations Conference on the Environment that was held in South Africa, illustrates the growing interest of the global community in the sustainability of industrial, civil and cultural systems in Africa. The region and others are interdependent with respect to natural resources, human capital and global economic stability. At ICIDEN Abuja 2006, events and circumstances that exemplify this global symbiosis will be analyzed by participants from a variety of geographical regions, cultural backgrounds, professional disciplines and economic sectors. Policies and technical approaches to managing the three pillars of sustainable development (economic development, environmental stewardship and social equity) will be proposed by many presenters and discussion panelists.

Infrastructure development is an essential component of regional and national economic development plans that target the provision of goods and services to an expectant population in each country. Inadequate physical infrastructure constrains economic development in all countries, including health, communications, construction, transportation, energy, manufacturing and education. Investments in infrastructure can relieve the excessive unemployment of the labor force that averages 7% globally, and ranges from 3 to 30% in different countries. Population growth and its regional distribution are key determinants of infrastructure needs, environmental quality and the distribution of disaster-induced damages to constructed and cultural systems. Globally, 48% of people live in urban areas, most of which are located in coastal regions that are prone to one or more of the following hazards: earthquakes, tsunamis, floods and mudslides. Their toll on physical infrastructure, the environment and human health is exceedingly high as evident in recent events in the United States, Southeast Asia, China, East Africa and Europe. Apart from the ravages of natural and technological hazards, material and energy requirements to operate modern societies are astronomically high. With significant regional density variations, the global population of 6.2 billion people consumes energy at the level of 10,009 million kilogram oil equivalent (koe) per year. The per capita consumption is 1,686 koe per year. Indeed, energy is the lifeblood of modern economies and will increasingly impact upon international relations. With respect to materials, their excavation processing, use and disposal have generated both wealth and environmental degradation in many mix proportions for different countries. Incidentally, concerns about environmental problems that derive from human activities became pronounced only in the 20th century. More materials have been used to operate society since 1945 than the volume used between antiquity and 1945. Essentially, the wealth, stealth and health of nations can be scaled by the weight of materials they have used to build and operate their societies.

While natural and technological disasters are often dramatic, environmental degradation is usually gradual. In this interconnected world, it can percolate through national and regional boundaries. With urbanization rates growing up to 3% per year in Asia, South America and Africa, more opportunities have arisen for wind, water and humans to transfer pollutants from disturbed zones to distant regions. Brown haze that is generated through the use of dried manure for cooking in Asian villages, forest fires and fossil fuel combustion hang in the atmosphere to a thickness of several kilometers and cause respiratory diseases. Gas flaring in many regions contributes to acid rain and the deposition of other contaminants. Some pollutants in air and water from non-point sources and industrial plants in the Great Lakes region of the United States have local and regional impacts. The catalog of large-scale environmental issues now includes leaching of organic carbon from Siberian peat and deposition with other contaminants in the Arctic; desertification in Sahel Africa and Central Asia; oil spills in coastal waters worldwide; and water erosion in Hong Kong, Brazil, China and Sub-Saharan Africa.

Risk and growth management systems can be formulated and implemented in ways that do not damage both economic development and environmental quality. The range of options for achieving this objective can be expanded by each organization, county (or local government area), state (or province) and country to cover incentives, regulations, public enlightenment, public/private partnerships, technical support and research aimed at providing more reliable information for decision-making. Optimization of these options by each country or administrative unit to suit its circumstance is required for sustainability of its systems and development. Ultimately, it will boil down to a standard (not quality) of life issue: what is the extent to which the public is willing to control its consumption patterns and/or pay for services that can produce unit improvements in environmental quality? In a democratic environment, public awareness, especially at the local level, increases the possibility that the right choices will be made. This is the rationale and target of our sustainable development conference series. For the first time, an African country will host this important event. With humility and excitement, I invite you to participate in this international conference.

By Prof. Hilary I. Inyang, Honorary Chair ICIDEN-ABUJA 2006

*President, International Society of Environmental Geotechnology (ISEG), President, Global Alliance for Disaster Reduction (GADR)
Duke Energy Distinguished Professor and Director, Global Institute for Energy and Environmental Systems (GIEES)
University of North Carolina at Charlotte, NC, USA*

CONFERENCE SCHEDULE

- **August 30, 2005:** Conference website created (<http://www.iseg.giees.uncc.edu/abuja2006>)
- **February 25, 2006:** Deadline for submission of abstracts
- **March 30, 2006:** Deadline for submission of fullpaper
- **May 15, 2006:** Preliminary program released
- **July 15, 2006:** Final program released
- **September 10-15, 2006:** Conference

CONFERENCE HEADQUARTERS

ABUJA 2006 International Headquarters

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THEMATIC AREAS

(See Abstract Submission Form for more information)

A. NATIONAL/ INTERNATIONAL ENVIRONMENTAL AND NATURAL RESOURCE POLICIES

- A.1. International environmental laws
- A.2. International environmental standards
- A.3. Natural resource policies
- A.4. Marine systems policies

B. COASTAL AND OFFSHORE ENVIRONMENTS

- B.1. Coastal ecosystem health
- B.2. Coastal flooding
- B.3. Marine oil spills
- B.4. Contaminated sediments
- B.5. Coastal erosion
- B.6. Seawater intrusion

C. AIR POLLUTION AND CLIMATE CHANGE

- C.1. Dust generation
- C.2. Industrial stack emissions
- C.3. Acid rain
- C.4. Ozone depletion
- C.5. Chemical vapors
- C.6. Air pollution control

D. SURFACE WATER POLLUTION AND TREATMENT

- D.1. Non-point source pollution
- D.2. Oil spills on land
- D.3. Acid mine drainage
- D.4. Industrial wastewater releases and treatment
- D.5. Agricultural runoff
- D.6. Drainage and wetland design

E. LAND CONTAMINATION / DEGRADATION AND REMEDIATION

- E.1. Desertification
- E.2. Deforestation
- E.3. Tailings spreading
- E.4. Chemical spills on land
- E.5. Municipal solid wastes
- E.6. Contaminated site remediation techniques
- E.7. Solid waste treatment and recycling
- E.8. Landfill technology

F. GROUNDWATER CONTAMINATION AND REMEDIATION

- F.1. Groundwater depletion
- F.2. Leakages from underground storage tanks
- F.3. Groundwater contamination
- F.4. Natural occurring radioactive materials (NORM)
- F.5. Contamination through oil drilling wells
- F.6. Groundwater treatment techniques

G. ENVIRONMENTAL MONITORING SYSTEMS

- G.1. Environmental monitoring network design
- G.2. Global/satellite observation systems
- G.3. Contaminant detection techniques
- G.4. Laboratory-based analytical systems
- G.5. Environmental impact assessments
- G.6. Environmental compliance assessments

H. ENVIRONMENT AND HUMAN HEALTH

- H.1. Contaminant toxicity and classification
- H.2. Human exposure pathways and assessments
- H.3. Ecological exposure assessment
- H.4. Occupational health assessments
- H.5. Indoor air pollution
- H.6. Exposure effects on human health
- H.7. Natural disasters and their impacts

I. INDUSTRIAL ECOLOGY AND ENVIRONMENTAL CONSERVATION

- I.1. Approaches to conservation
- I.2. Cultural and ethical parameters in conservation
- I.3. Energy systems for sustainability
- I.4. Material flow analysis
- I.5. Environmental justice and equity
- I.6. Environmental education and capacity-building

J. TRANSPORT INFRASTRUCTURE SYSTEMS

- J.1. Engineering and transport infrastructure
- J.2. Funding and foreign technical dependency
- J.3. Roads and highways
- J.4. Ports and maritime systems
- J.5. Railways and mass transit systems
- J.6. Airports, aviation and aerospace

K. INDUSTRIALIZATION AND ENVIRONMENT

- K.1. Manufacturing and the environment
- K.2. Power supply/costs and manufacture
- K.3. Industrial zones, parks and clusters
- K.4. Export free zones and industrialization
- K.5. Regional situations, markets and industries

L. ENVIRONMENT, ENERGY & DEVELOPMENT

- L.1. Energy sources and energy policies
- L.2. Energy uses and sustainable development
- L.3. Global energy crisis and alternatives
- L.4. Technology, energy and environment
- L.5. Environment, disasters and development
- L.6. Environment stewardship and conservation

M. POPULATION, HOUSING AND URBAN INFRASTRUCTURE

- M.1. Housing challenges of habitat II
- M.2. Rural-urban drift and municipal infrastructure
- M.3. Slums, shanty towns and urban renewal schemes
- M.4. Poverty, insecurity, policing, crimes/vice
- M.5. Cultural space, leisure & human rights
- M.6. Mass transit systems infrastructure
- M.7. World mega cities and development

N. TECHNOLOGY & COMMUNICATIONS INFRASTRUCTURE

- N.1. Globalisation and information infrastructure
- N.2. Information and communications technology
- N.3. Rural telephony, communication and development

THEMATIC AREAS

- N.4. Satellite and cable broadcasting
- N.5. Networking, software and hardware development
- N.6. Information, communication and space programmes

O. PUBLIC-PRIVATE SECTOR SYNERGY & DEVELOPMENT

- O.1. National planning and development trajectories
- O.2. Public sector-driven development
- O.3. Private sector-driven development
- O.4. Strategic infrastructure and investment promotion
- O.5. Joint venture options in development
- O.6. Foreign capital and foreign know-how in development
- O.7. Indigenous entrepreneurs & capital
- O.8. Small and medium scale enterprises
- O.9. Public sector reforms and investment
- O.10. Democracy, transparency and governance
- O.11. Equitable political systems and development

P. AGRICULTURE, LAND USE AND DEVELOPMENT

- P.1. Land policies and tenure systems
- P.2. Water resources, river basins and agriculture
- P.3. Biotechnology, genetic engineering & agriculture
- P.4. Raw material production and industrialization
- P.5. Aquaculture and agro-allied industrialization
- P.6. Infrastructure and agricultural export
- P.7. Agriculture, education and employment

Q. BANKING AND FINANCIAL INSTITUTIONS AND THEIR ROLES

- Q.1. Monetary & fiscal policies and development
- Q.2. Foreign capital and development
- Q.3. International organizations and foreign debts
- Q.4. The funding of development infrastructure

R. REGIONAL/INTERNATIONAL DEVELOPMENT AGENCIES AND THEIR ROLES

- R.1. The World Bank and IMF
- R.2. UNDP, UNEP, UNIDO, FAO, ECOSOC, UNICEF, WTO
- R.3. NEPAD, ECOW AS, SADC, Africa-Caribbean-Pacific, Asia-Pacific Economic Council, European Union,
- R.4. National and State Agencies

S. ENVIRONMENT, HEALTH AND DEVELOPMENT

- S.1. Integration of health policies
- S.2. Human capital, health and wealth of nations
- S.3. Medical and health infrastructure
- S.4. National & social insurance schemes
- S.5. Technology and drug manufacture

T. EDUCATION AND RESEARCH INSTITUTES

- T.1. Education and capacity-building for development
- T.2. National science and technology strategy
- T.3. Funding for research and development
- T.4. Global networks/linkages for research
- T.5. Diasporas, institutional linkages & funding
- T.6. Strategies for designs, inventions and manufacture

U. SPECIAL SESSIONS

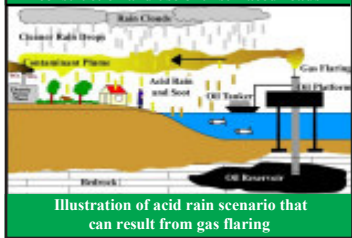
- U.1. Desertification in Sahel Africa and Central Asia
- U.2. Lead in gasoline (petrol) and inner city soils
- U.3. Environment and health in developing countries
- U.4. Mining and the environment in Central/South America
- U.5. Water pollution in Asia
- U.6. Environmental issues of the Niger Delta
- U.7. Population, development and environment in Nigeria
- U.8. Democracy and economic development
- U.9. Environmental journalism

V. SHORTCOURSES

- SC-1. Design and Analysis of Solid Waste Landfills and Effluent Impoundments (3hrs)
- SC-2. Environmental Impact Analysis and Auditing Techniques (3hrs)
- SC-3. Design, Construction and Maintenance of Roadway Pavements (3hrs)
- SC-4. Fundamentals of Wastewater Treatment Technology (3hrs)
- SC-5. Environmental Monitoring, Geostatistics and GIS Techniques (3hrs)
- SC-6. Life-cycle Cost Analysis of Infrastructure Systems (3hrs)
- SC-7. Fundamentals of Contaminated Site Remediation Techniques (3hrs)
- SC-8. Issues in Sustainable Development (Ethics, options selection, economy of scale, globalization, Deployment of Technical Systems and Management of growth) (3hrs)



Environmental pollution resulting from the construction and use of unsurfaced roads



CONFERENCE PLAN AT A GLANCE

ICIDEN 2006 – September 10-15, 2006 – Abuja, FCT, Nigeria
 Venue: Abuja Sheraton Hotel & Towers, Ladi Kwali Way, Maitama, Abuja, Nigeria
 For Directions call (234) (9) 523 0225

DAY 1, SUNDAY, SEPTEMBER 10, 2006

2:00 – 5:30pm

REGISTRATION AT LOBBY OF THE SHERATON CONFERENCE CENTER

DAY 2, MONDAY, SEPTEMBER 11, 2006

Mon, Sept. 11	Room 1	Room 2	Room 3	Room 4	Room 5
8:00 – 12:00am	OPENING CEREMONY				
12:00 – 1:00pm	Lunch Break				
1:05 – 3:00pm	Forum 1				
3:00 – 5:00pm	Forum 2				
7:00 – 10:00pm	Short Courses (To Be Assigned)				

DAY 3, TUESDAY, SEPTEMBER 12, 2006

Tue., Sept. 12	Room 1	Room 2	Room 3	Room 4	Room 5
8:00 – 10:00am	Session A.1	Session B.1	Session C.1	Session D.1	Session E.1
10:05 – 12:05pm	Session A.2	Session B.2	Session C.2	Session D.2	Session E.2
12:05 – 1:00pm	Lunch Break				
1:05 – 3:05pm	Session A.3	Session B.3	Session C.3	Session D.3	Session E.3
3:10 – 5:10pm	Session A.4	Session B.4	Session C.4	Session D.4	Session E.4
5:10 – 7:00pm	Break				
7:00 – 10:00pm	SE-5 CONFERENCE DINNER AND RECOGNITION NIGHT: VENUE: ABUJA SHERATON HOTEL.				

DAY 4, WEDNESDAY SEPTEMBER 13, 2006

Wed. Sept 13	Room 1	Room 2	Room 3	Room 4	Room 5
8:00 – 10:00am	Session A.5	Session B.5	Session C.5	Session D.5	Session E.5
10:05 – 12:05pm	Session A.6	Session B.6	Session C.6	Session D.6	Session E.6
12:05 – 1:05pm	Lunch Break				
1:05 – 3:05pm	Session A.7	Session B.7	Session C.7	Session D.7	Session E.7
3:10 – 5:10pm	Session A.8	Session B.8	Session C.8	Session D.8	Session E.8
7:00 – 10:00pm	CULTURAL NIGHT				

DAY 5, THURSDAY, SEPTEMBER 14, 2006

Thu., Sept 14	Room 1	Room 2	Room 3	Room 4	Room 5
8:00 – 10:00am	Session A.9	Session B.9	Session C.9	Session D.9	Session E.9
10:05 – 12:05pm	Session A.10	Session B.10	Session C.10	Session D.10	Session E.10
12:05 – 1:00pm	Lunch Break				
1:05 – 3:00pm	Session A.11	Session B.11	Session C.11	Session D.11	Session E.11
3:05 – 4:30pm	Forum 3				
4:35 – 6:00pm	Forum 4				
7:00 – 10:00pm	Short Courses (To Be Assigned)				

DAY 6, FRIDAY, SEPTEMBER 15, 2006

Fri., Sept 15	Room 1	Room 2	Room 3	Room 4	Room 5
8:00 – 10:00am	Session A.12	Session B.12	Session C.12	Session D.12	Session E.12
10:05 – 12:05pm	Session A.13	Session B.13	Session C.13	Session D.13	Session E.13
12:05 – 1:00pm	Lunch Break				
1:05 – 3:00pm	Forum 5				
3:05 – 4:30pm	Forum 6				
4:35 – 6:00pm	CLOSING CEREMONY				

ABSTRACT SUBMISSION INSTRUCTIONS

Submission deadline: February 25, 2006

First page should include: Title, author(s), affiliation(s) and full address for correspondence, including telephone and fax numbers and e-mail addresses.

Abstract: Please provide a short abstract (written in English) of 250 to 500 words. The abstract should not contain any undefined abbreviations or unspecified references.

Curriculum Vitae: Authors and co-authors should each submit a 1-paragraph summary of curriculum vitae (single spaced) containing their degrees, job responsibility and history, and professional contributions.

Submission: Authors are encouraged to submit abstracts online at <http://www.iseg.geees.uncc.edu/abuja2006>, but they may also submit the abstract as an email attachment to geees@email.uncc.edu or mail it to:

ICIDEN ABUJA 2006
Attention: Mr. Gustavo Borel Menezes (gbmenezes@uncc.edu)
Global Institute for Energy and Environmental Systems (GIEES), CARC 238
University of North Carolina at Charlotte, Charlotte, NC 28223, USA
Tel: 704-687-2182 Fax: 704-687-3115

Paper Title: _____

Title (Mr./Mrs./Ms./Dr./Prof.): _____ Professional Title (example: Assist. Professor): _____

Name of Main Author: _____ Corresponding Author

Organization: _____

Department: _____

Address: _____

City: _____ State: _____ Country: _____

E-mail: _____ Phone: _____ Fax: _____

Thematic Area (example: E.4): _____

I am interested in receiving registration materials I am interested in exhibiting my product(s)

Send me copies of registration materials and travel lodging information (circle one): 2 3 4

I will attend the conference I will not attend the conference

My organization would like to be a co-sponsor of this conference (see attached sponsorship form)

Name of Co-author 1: _____ Corresponding Author

Title (Mr./Mrs./Ms./Dr./Prof.): _____ Professional Title (example: Assist. Professor): _____

Organization: _____

Department: _____

Address: _____

City: _____ State: _____ Country: _____

E-mail: _____ Phone: _____ Fax: _____

Name of Co-author 2: _____ Corresponding Author

Title (Mr./Mrs./Ms./Dr./Prof.): _____ Professional Title (example: Assist. Professor): _____

Organization: _____

Department: _____

Address: _____

City: _____ State: _____ Country: _____

E-mail: _____ Phone: _____ Fax: _____

Name of Co-author 3: _____ Corresponding Author

Title (Mr./Mrs./Ms./Dr./Prof.): _____ Professional Title (example: Assist. Professor): _____

Organization: _____

Department: _____

Address: _____

City: _____ State: _____ Country: _____

E-mail: _____ Phone: _____ Fax: _____

By
 Dr. Victor A. Fodeke
 Chair, Local Planning Committee, ICIDEN ABUJA 2006
 and
 Federal Controller of the Environment
 Federal Ministry of Environment, Abuja, Nigeria

On behalf of the Local Planning Committee of ICIDEN ABUJA 2006, I thank Prof. Hilary I. Inyang and the leadership of ISEG in general, for bringing this important event to Nigeria. The upcoming conference which will be held in the pleasant city of Abuja, will feature about 500 platform presentations, 100 sessions and panels. Some presentations and panel discussions will be broadcast live or recorded for subsequent broadcast on radio and television. Short-courses and exhibitions will also be presented. Apart from programs that will focus on policies, science, technology and management systems for



NNPC Headquarters



Cultural Dances

infrastructure development and the environment, many social events are planned. Cultural dances that will feature several troupes from Africa and the diaspora will perform for the participants.

In a preview of the inter cultural interactions that this conference series has promoted over the years under the auspices of the leaders of ISEG and its numerous collaborating organizations, a few participants at the INCEED 2005 Conference that was held in Charlotte, North Carolina, USA, decided to model African dresses in preparation for ICIDEN ABUJA 2006. We present these distinguished experts in their beautiful African dresses, for your viewing pleasure.

SOME PARTICIPANTS OF INCEED 2005 IN CHARLOTTE, USA, DECIDED TO MODEL AFRICAN ATTIRE IN PREPARATION FOR ICIDEN ABUJA 2006



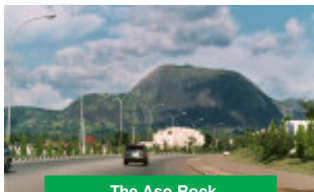
Dr. Vincent Ogunro (USA) hosted some long term councillors of International Society for Environmental Geotechnology (ISEG) who participated in INCEED 2005 in Charlotte, USA



From Left to Right: Prof. T. Cássia de Brito Galvão (Brazil), Prof. H-Y. Fang (USA), Dr. Sue Struthers (UK), Dr. Thomas Zimmie (USA), Mrs. Julia Fang (USA), Dr. Abidin Kaye (Turkey)

SCENES OF ABUJA, NIGERIA

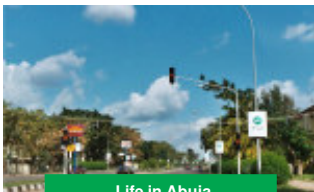
In 1976, Abuja was selected by the Federal Government to become the new seat of government. In 1992, the first of four stages of this move to Abuja was launched with most of the senior government officials now in Abuja. Besides being the administrative seat of government, Abuja is a beautiful city surrounded by rolling hills, with ample mountaineering potential. The Gwagwa Hills near Suleja, the Chukuku Hills, the Agwai Hills and the famous Zuma Rock are just some of the awe-inspiring manifestations of nature's beauty in the area. It is located in the center of Nigeria between latitudes $7^{\circ} 25' N$ and $9^{\circ} 20' N$ of the equator and longitudes $6^{\circ} 45' E$ and $7^{\circ} 39' E$. It has a land area of about 8,000 square km and an estimated population of about 1.0 million. This is expected to reach 3.2 million at full development of the city. Among the landmarks in Abuja are the National Children's Park and Zoo, the International Conference Center, the Secretariat of the Economic Community of West African States (ECOWAS), the Aso Rock and Cave, the Jabi Dam, the Gurara Water Fall, Julie Useni Park, Abuja Amusement Park and Zuma Rock. Educational institutions in Abuja include a federal university, 5 federal colleges, 35 secondary schools, 4 women development centres and more than 42 private educational institutions at all levels.



The Aso Rock



Navy Headquarters



Life in Abuja



Akinola Aguda Guest House



Abuja Transit System



House of Parliament

A
B
U
J
A

TRAVEL, HEALTH AND RELATED INFORMATION

Travel and Visa: Nigerian Embassies, High Commissions and Consulates in the capitals and regional cities of foreign countries can issue Nigerian entry visas to conference participants / tourists. These visas enable the visitors to stay in Nigeria for up to 3 months. Nationals of other West African (ECOWAS) countries do not need entry visas to Nigeria. Non-ECOWAS nationals are advised to apply for Nigerian entry visas about 3 weeks before the dates of intended travel. Upon full registration, a letter of invitation will be issued to each participant to use in visa application. Abuja, Nigeria is served directly by international airlines, examples of which are Air France, KLM and British Airways. These airlines fly directly into Abuja's Nnamdi Azikiwe International Airport. Although the city is also accessible by land and air from all parts of Nigeria and, indeed Africa, it is convenient for ICIDENABUJA 2006 participants that are coming in from cities outside Africa to take connecting flights from Europe directly to Abuja. Upon reaching the Abuja Airport, ICIDEN ABUJA 2006 travel guides will be waiting to convey participants from the Nnamdi Azikiwe International Airport to the Sheraton Hotel for check-in.

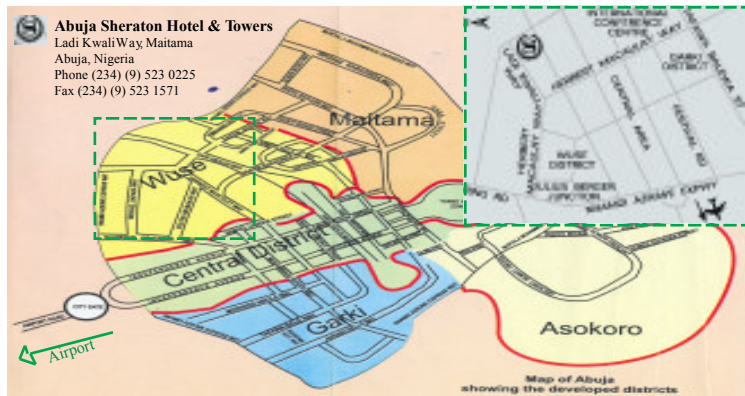
Climate: Climate in Abuja is dominated by two seasons: the dry season that starts in November and ends in February; and a rainy season that begins in earnest in mid-March and ends in November. The ICIDEN ABUJA 2006 is scheduled for September 10-15, 2006, during which temperature will be mostly in the range of 24 – 36° C (72 – 96°F)

Health Services: Abuja has many healthcare facilities, among which are the National Hospital, Specialist Hospital, 120-bed Garki Hospital, INUSE Hospital and Abaji Hospital. There are 102 primary healthcare facilities in the city, including healthcare clinics, dispensaries and health posts. Participants who have immediate healthcare needs should report such needs to the Sheraton Hotel management at check-in. Although no major incidences of waterborne ailments have been reported in Abuja, it is recommended that participants drink water only if it is bottled.

International Communications While in Nigeria: Abuja receives international broadcasts by CNN, Fox News, BBC and many other networks. It is also connected effectively to other countries by telephone exchange and internet. These facilities are available at the Sheraton Hotel, the conference venue of ICIDENABUJA 2006.

Crime Rate: For a city of Abuja's size, crime rate is minimal in comparison to crime rates in many other cities and regions of the world. The city is well policed and the Sheraton Conference site is very secure. It has hosted many international events. In general, Abuja is the host city to numerous foreign embassies, offices of foreign firms such as Shell-BP, Exxon Mobil, and Julius Berger. Employees of several United Nations agencies, and continental organizations move around freely in Abuja.

MAP OF ABUJA SHOWING THE LOCATION OF THE SHERATON HOTEL CONFERENCE VENUE



FACILITIES AT THE SHERATON HOTEL, ABUJA, THE ICIDEN-ABUJA 2006 VENUE

(Complete the Hotel Reservation form and mail / fax it to the included address)

Abuja Sheraton Hotel & Towers is an integral part of the new Federal Capital of Nigeria, Abuja. The hotel is barely 40 kilometers from the Nnamdi Azikiwe International Airport and convenient to the International Conference Center and the Federal secretariat, the administrative seat of most federal agencies. The hotel is also an ideal location for those on holiday who wish to explore their surroundings or those on business who expect the highest standards in terms of facilities and services.

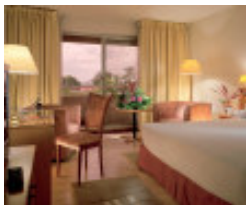
Hotel Services

- 24-Hour Room Service
- Business Center/Services
 - Concierge Service
 - Tour Service
- Wake-up Service Available
 - Parking Available
 - Fitness Facility
 - Outdoor Pool
 - Car Rental Service
- Barber/Beauty Salon



Guest Rooms & Amenities

Over 640 rooms in all: 571 King size and Double rooms, 4 Presidential suites, 2 Ambassadors suites, 4 Diplomatic suites, 16 Suites, 32 Executive suites. All rooms are equipped with Air Conditioners.



Food Services

The hotel has several restaurants that serve Italian, Nigerian, Chinese and Indian cuisines. Some interesting places are the Lobby Lounge, the Elephant Bar, the Obudu Grill, the Luigi's Restaurant and the Papillon Restaurant



Abuja Sheraton Hotel & Towers

Ladi Kwali Way, Maitama
Abuja, Nigeria
Phone (234) (9) 523 0225
Fax (234) (9) 523 1571



ORGANIZATIONAL / COMPANY / AGENCY INVOLVEMENT SOLICITATION FORM

Please complete and return this form by February 25, 2006 with your corporate contribution and/or pledge to:

Non-African Countries

Make Check Payable to GIEES / ICIDEN-ABUJA and mail it to:
Global Institute for Energy and Environmental Systems (GIEES)
Attn: **Ms. Erin LaBarge**
University of North Carolina Charlotte - CARC 241
9201 University City Blvd, Charlotte, NC 28223-0001, USA
Tel: 1(704)687-2182, Fax: 1(704)687-3115, giees@email.uncc.edu

Africa Outside Nigeria

Make Check Payable to ICIDEN-ABUJA and mail it to:
ICIDENABUJA 2006 Local Headquarters
Attn: **Mr. Wilson Essien**
PMB 057, Garki, Abuja, FCT, Nigeria
Tel: +234 (0)-805-454-2805 or 234(0)803-6316532
Email: mfakpan@gmail.com or abuja2006@gmail.com

Corporate Organizations in Nigeria

Make Check Payable to ICIDEN-ABUJA and mail it to:
ICIDEN ABUJA2006 Local Headquarters
Attn: **Ms. Salome Eferemo**
PMB 057, Garki, Abuja, FCT, Nigeria
Tel: +234(01)8150867 or (0)803-3041789
Email: salomey@gmail.com or abuja2006@gmail.com

Public/Government Agencies & Intern. Organizations

Make Check Payable to ICIDEN-ABUJA and mail it to:
ICIDENABUJA 2006 Local Headquarters
Attn: **Mrs. Helen Bendega**
PMB 057, Garki, Abuja, FCT, Nigeria
Tel: 234 (0) 805-211-0747 or 234(0)8033114282
Email: abuja2006@gmail.com

Name of Organization/Agency: _____

Branch or Section: _____

Name of Contact Person for Contribution: _____

Address (Street Name/P.O.Box/etc): _____

City: _____ State: _____ Zip Code: _____ Country: _____

Email _____ Tel _____ Fax _____

Date Form Submitted

Are you interested in hosting your special session (Gold-Level Only)?: Yes No

Are you interested in sponsoring: Special Dinner (Gold-Level Sponsorship and Benefits)

Coffee Breaks (Bronze-Level Sponsorship and Benefits)

SPONSORSHIP LEVEL SELECTED Gold Silver Bronze

(Select one sponsorship level after reading the benefits below. Currency Conversion: US\$1.00 = ₦135.00)

1. GOLD-LEVEL SPONSORSHIP Above ₦3 million

Benefits

- Allowance for 10-minute speech by corporate official of the company or Agency at the opening ceremony of ICIDEN-ABUJA2006 on September 10, 2006
- Opportunity to organize and host a special session (1.5 hrs) at the conference
- Full one-page advertisement of the company/agency in the conference program and book of abstracts
- Free attendance of 8 company/agency officials or other designees in all sessions of ICIDEN-ABUJA 2006
- Placement of the agency/company's name in the list of contributors at the entrances of all session rooms
- Listing of the company in the list of contributors on the conference web site and printed program to be distributed to more than 30,000 professionals in the industrial sectors covered

2. SILVER-LEVEL SPONSORSHIP ₦ 2.0 million - ₦3.0 million

Benefits

- Mention of the company during the opening speech by the Conference Chair
- Opportunity to organize and host a special session (1.5 hrs) at the conference
- Half-page advertisement of the company in the conference program and book of abstracts
- Free attendance of 5 company officials or other designees in all sessions of ICIDEN-ABUJA 2006
- Placement of the company's name in the list of contributors at the entrances of all session rooms
- Listing of the company in the list of contributors on conference web site and printed program to be distributed to more than 30,000 professionals in the industrial sectors covered

3. BRONZE-LEVEL SPONSORSHIP ₦ 1.0 million - ₦2.0 million

Benefits

- Free attendance of 3 company officials or other designees in all sessions of ICIDEN-ABUJA 2006
- Placement of the company's name in the list of sponsors at the entrances of all session rooms
- Listing of the company in the list of contributors on conference web site and printed program to be distributed to more than 30,000 professionals in the industrial sectors covered

ICIDEN ABUJA 2006 REGISTRATION FORM FOR NON-AFRICAN COUNTRIES

THIS FORM SHOULD BE USED ONLY BY PARTICIPANTS COMING FROM NON-AFRICAN COUNTRIES

Submit this form to ISEG to the address indicated below by fax, surface mail or online with registration fees.

(Online registration is encouraged - <http://www.iseg.giees.uncc.edu/abuja2006>)

ICIDEN ABUJA2006

CARC 238, Global Institute for Energy and Environmental Systems
University of North Carolina at Charlotte, 9201 University City Blvd
Charlotte, NC 28223, USA Phone: 704-687-2182 Fax: 704-687-3115

Title: Prof. Dr. Ms. Mr - Job Role (e.g.: Manager, Asst. Professor): _____

Name: _____

Organization: _____

Department: _____

Address: _____

City: _____ State: _____ Postal Code: _____

Non-African Country: _____ Send ICIDENABUJA information to my email

Phone: _____ Fax _____ Email: _____

Are you submitting a paper? : yes no Are you the primary author?: yes no

Are you an ISEG Member (10% discount on registration fee)? yes no

Are you an ISEG Executive or Counselor (50% discount on registration fee) yes no

Do you need an invitation letter for visa application purposes? yes no

REGISTRATION (Fees in US\$)

Before March 31, 2005 Or ISEG Member	After April 1, 2005
--	------------------------

Full Registration (Does not cover short courses)

US\$400

US\$450

Student Registration (Does not cover short courses, attach a copy of your ID)

US\$150

US\$150

SHORT COURSES (Registration Deadline for SC is July 31, 2006)

(Participants may decide to register only for short courses. Course Materials will be provided)

SC-1. Design and Analysis of Solid Waste Landfills and Effluent Impoundments (3hrs)

US\$150

US\$150

SC-2. Environmental Impact Analysis and Auditing Techniques (3hrs)

US\$150

US\$150

SC-3. Design, Construction and Maintenance of Roadway Pavements (3hrs)

US\$150

US\$150

SC-4. Fundamentals of Wastewater Treatment Technology (3hrs)

US\$150

US\$150

SC-5. Environmental Monitoring, Geostatistics and GIS Techniques (3hrs)

US\$150

US\$150

SC-6. Life-cycle Cost Analysis of Infrastructure Systems (3hrs)

US\$150

US\$150

SC-7. Fundamentals of Contaminated Site Remediation Techniques (3hrs)

US\$150

US\$150

SC-8. Issues in Sustainable Development (Ethics, options selection, economy of scale, globalization, Deployment of Technical Systems and Management of growth)(3hrs)

US\$150

US\$150

SOCIAL FUNCTIONS

Opening Ceremony - Sunday, September 10, 2006

Free

Free

Dinner and Awards Presentation Event - Tuesday, September 12, 2006

US\$60

US\$60

Cultural Show - Wednesday, September 13, 2006

US\$40

US\$40

City Tour - Monday, September 11, 2006

US\$40

US\$40

TOTAL

Payment Method

1. Card Type: Mastercard Visa Name on Card: _____

Card Number:

Signature: _____

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CVV Number (3-digit number printed on the back of card):

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ICIDEN ABUJA 2006 REGISTRATION FORM FOR AFRICA, INCLUDING NIGERIA

THIS FORM SHOULD BE USED ONLY BY PARTICIPANTS COMING FROM AFRICAN COUNTRIES
Submit this form to ISEG to the address indicated below by fax, surface mail or online with registration fees.
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 PMB 057, Garki, Abuja, Nigeria
 Tel: +234(0)803-629-2865 Fax: _____ Email: abuja2006@gmail.com

Title: Prof. Dr. Ms. Mr. - Job Role (e.g.: Manager, Asst. Professor): _____

Name: _____

Organization: _____

Department: _____

Address: _____

City: _____ State: _____ Postal Code: _____

African Country: _____ Send ICIDENABUJA information to my email

Phone: _____ Fax _____ Email: _____

Are you submitting a paper? : yes no Are you the primary author?: yes no

Are you an ISEG Member (10% discount on registration fee)? yes no

Are you an ISEG Executive or Counselor (50% discount on registration fee) yes no

Do you need an invitation letter for visa application purposes? yes no

REGISTRATION (Fees in Nigerian Naira ₦)	Before March 31, 2005 Or ISEG Member	After April 1, 2005
<input type="checkbox"/> Full Registration (Does not cover short courses)	₦18,000	₦20,000
<input type="checkbox"/> Student Registration (Does not cover short courses, attach a copy of your ID)	₦10,000	₦10,000

SHORT COURSES (Registration Deadline for SC is July 31, 2006)

(Participants may decide to register only for short courses. Course Materials will be provided)

<input type="checkbox"/> SC-1. Design and Analysis of Solid Waste Landfills and Effluent Impoundments (3hrs)	₦15,000	₦15,000
<input type="checkbox"/> SC-2. Environmental Impact Analysis and Auditing Techniques (3hrs)	₦15,000	₦15,000
<input type="checkbox"/> SC-3. Design, Construction and Maintenance of Roadway Pavements (3hrs)	₦15,000	₦15,000
<input type="checkbox"/> SC-4. Fundamentals of Wastewater Treatment Technology (3hrs)	₦15,000	₦15,000
<input type="checkbox"/> SC-5. Environmental Monitoring, Geostatistics and GIS Techniques (3hrs)	₦15,000	₦15,000
<input type="checkbox"/> SC-6. Life-cycle Cost Analysis of Infrastructure Systems (3hrs)	₦15,000	₦15,000
<input type="checkbox"/> SC-7. Fundamentals of Contaminated Site Remediation Techniques (3hrs)	₦15,000	₦15,000
<input type="checkbox"/> SC-8. Issues in Sustainable Development (Ethics, options selection, economy of scale, globalization, Deployment of Technical Systems and Management of growth)(3hrs)	₦15,000	₦15,000

SOCIAL FUNCTIONS

<input type="checkbox"/> Opening Ceremony - Sunday, September 10, 2006	Free	Free
<input type="checkbox"/> Dinner and Awards Presentation Event - Tuesday, September 12, 2006	₦10,000	₦10,000
<input type="checkbox"/> Cultural Show - Wednesday, September 13, 2006	₦10,000	₦10,000
<input type="checkbox"/> City Tour - Monday, September 11, 2006	₦10,000	₦10,000

TOTAL

Payment Method (Choose One)

- By Wire Transfer** Please send your payment to Ecobank Nigeria Plc, Effurun-Sapele Road, Warri Delta State, Account #3417141517 c/o Dr. Victor Fodeke, Chair, Local Planning Committee and this complete form to the following address: ICIDEN-ABUJA 2006 Local Headquarters, Attn: Ms. Mfon O. E. Akpan, PMB 057, Garki, Abuja, Nigeria
- By check** (cheque), international money order or bank draft (check, money order or bank draft payable to ICIDEN ABUJA 2006, and please send your payment (in Nigerian Naira dollar equivalent) with this complete form to the address indicated above on the top of this form.

EXHIBITION FORM

Please complete and return this form by **March 30, 2006** with your payment for exhibition space to:

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University of North Carolina at Charlotte, 9201 University City Blvd
Charlotte, NC 28223, USA Phone: 704-687-6264 Fax: 704-687-3115
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Exhibition Options

(Please mark all that apply and total up the surcharges)

A. **BASIC EXHIBITION** - US\$3,000.00 Includes

- Exhibition space of size 10 ft x 10 ft at the Sheraton, Abuja, Nigeria from Monday, Sept. 11, 2005 to Friday, Sept. 15, 2006.
- One table (6 ft long) and two chairs.
- An electrical socket on the wall to plug in electrical appliances.
- One free registration for attendance of all presentations at the Conference.
- Establishment of web link to your company's website through the ICIDEN ABUJA conference website <http://www.iseg.giees.uncc.edu/abuja2006/>
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- B.1. Inclusion of half-page advertisement in the conference program and book of abstracts (both electronic and paper editions) \$1,500.00
- B.2. Inclusion of full page advertisement of your company product or services in the conference program or book of abstracts (both electronic and paper editions) \$2,000.00
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Country	Abstracts	Number of Hits	Country	Abstracts	Number of Hits
Algeria	1	3	Uganda	0	1
Algeria	7	15	Uganda	2	14
Anguilla and Barbuda	-	1	Uganda	0	1
Argentina	-	1	Uganda	0	1
America	-	17	Uganda	0	14
Australia	4	59	Uganda	0	7
Austria	1	14	Uganda	0	6
Azerbaijan	-	8	Uganda	2	17
Bahrain	-	1	Uganda	2	54
Bangladesh	-	17	Uganda	0	15
Barbados	-	1	Uganda	0	114
Bahrain	-	1	Uganda	0	8
Bangladesh	6	17	Uganda	0	1
Belgium	1	22	Uganda	0	6
Brazil	25	103	Uganda	0	8
Bulgaria	5	15	Uganda	0	19
Burundi	1	1	Uganda	0	11
Cameron	1	10	Uganda	2	8
Canada	9	159	Uganda	0	4
Chile	0	6	Uganda	0	1
China	42	237	Uganda	0	1
Colombia	-	1	Uganda	1	13
Cote D'Ivoire	-	3	Uganda	11	33
Croatia	-	4	Uganda	0	1
Czech Republic	-	4	Uganda	0	4
Denmark	-	17	Uganda	0	4
Dominica	1	1	Uganda	0	3
Ecuador	1	6	Uganda	0	7
Egypt	2	38	Uganda	0	13
Estonia	-	4	Uganda	0	1
Ethiopia	-	3	Uganda	1	6
Finland	-	7	Uganda	0	17
France	1	38	Uganda	2	33
Gambia	1	34	Uganda	1	13
Ghana	1	3	Uganda	0	1
Germany	1	114	Uganda	6	59
Ghana	-	57	Uganda	2	22
Greece	2	25	Uganda	0	1
Hong Kong	4	32	Uganda	2	31
Hungary	2	3	Uganda	0	17
India	26	259	Uganda	1	1
Indonesia	-	10	Uganda	0	59
Iran	0	1	Uganda	1	1
Ireland	3	10	Uganda	0	7
Iran	4	54	Uganda	0	18
Israel	1	26	Uganda	19	18
Italy	2	35	Uganda	2	194
Jamaica	0	3	Uganda	6	4
Japan	16	124	Uganda	159	2056
Jordan	-	19	Uganda	0	3
Kazakhstan	-	1	Uganda	5	1
Kenya	-	17	Uganda	0	11
Korea	14	64	Uganda	0	1
Kuwait	1	14	Uganda	1	1
Laos	0	1	Uganda	1	1
Laos	2	10	Uganda	489	4737

TOTALS

469 Abstracts received from 53 different countries
4737 Unique website visits from 111 different countries



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MEMBERSHIP REGISTRATION FORM

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The International Society of Environmental Geotechnology (ISEG) has evolved as a registered non-profit professional society of researchers, policymakers, educators, corporate personnel and representatives of or organizations who are active or interested in the advancement and application of knowledge in the geoenvironmental sciences and engineering to sustainable development of all regions of the world. Since 1993, the parent group of individuals and organizations has organized several symposia and conferences in North America, Asia and South America to address critical issues that rest on the application of technical knowledge drawn from a diversity of disciplines. These events and related technical activities have drawn widespread participation, exemplified by an average of 500 participants from about 50 countries in events that have been hosted. Furthermore, the results of deliberations at some of these events have been directly put into public policies by representatives of government agencies in many countries. ISEG seeks to continue to promote scientific cooperation among countries, organizations and individuals on geoenvironmental issues. ISEG is headquartered at the Global Institute for Energy and Environmental Systems of the University of North Carolina at Charlotte, NC, USA.

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Address: _____	& Japan)
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Hsai-Yang Fang Research Award

Nomination Form

Any individual who submits an original paper that is/was presented at one of the conferences/symposia held under the auspices of the International Society of Environmental Geotechnolgy (ISEG) within the previous two years, will be eligible for the *Hsai-Yang Fang Research Award* of the International Society of Environmental Geotechnolgy (ISEG). The award criterion is the significance of the paper with respect to original contributions to research advances or professional practice in environmental geotechnolgy. The first Hsai-Yang Fang Research Award was presented at the International Conference on Energy, Environment and Disasters (INCEED) held in Charlotte, North Carolina, USA, July 25-30, 2005. The 2005 award was won by Prof. Irene Lo of Hong Kong University of Science and Technology, Hong Kong, China. The 2006 prize will be presented at the International Conference on Infrastructure Development and the Environment (ICIDEN ABUJA 2006) to be held in Abuja, Nigeria, Sept. 10-15, 2006. A certificate plus U.S. \$1,000 will be presented to the winner. Two runner-up papers will receive honourable mention. The award will be offered during each biennial symposium. A special committee will be set up to evaluate papers nominated for the award. To submit nominations for this award, the nomination form should be completed and sent with a copy of the nominated article by May 15, 2006, to the address indicated below.

ISEG Awards

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Fax: 704-687-3115

Title of Nominated Paper: _____

ISEG Conference/Symposium at which paper was presented : _____

Corresponding Author

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City: _____ State: _____ Postal Code: _____

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Principal Author (include title Dr./Prof./etc): _____

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GADR is a diverse, international non-governmental organization (NGO) that networks more than 1000 professionals and 100 supporting organizations in 70 countries. GADR which is headquartered at the Global Institute for Energy and Environmental Systems of the University of North Carolina-Charlotte, NC, USA, was established in 2001 with the mission of facilitating global cooperation, communication, coordination and collaboration among United Nations agencies, academia, and public and private organizations that have missions and programs relevant to natural and technological hazards. The organization was officially certified as an NGO in 2003. It comprises administrators, policy makers, educators, researchers, technologists and emergency service officers from government agencies, the private sector and NGOs. Their responsibilities and interests embrace the reduction of disasters from natural and technological hazards and introduction of cost-effective disaster reduction concepts into programs for sustainable development, disaster-resilient communities and environmental management.

Since 2001, GADR has created the authoritative serial documents: Blueprints for Change to integrate the theory and practice of disaster resilience and highlight/recommend best practices in different parts of the world. It is also providing leadership in collaboration with UNESCO, UN-ISDR and other organizations to operate a Knowledge Management and Education program as a component of the United Nation's Decade of Education for Sustainable Development (2005-2014).

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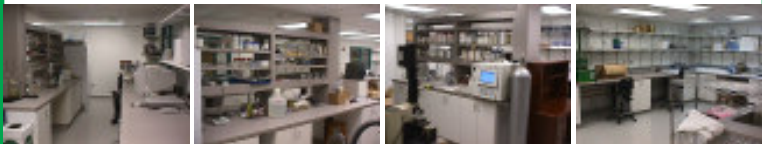
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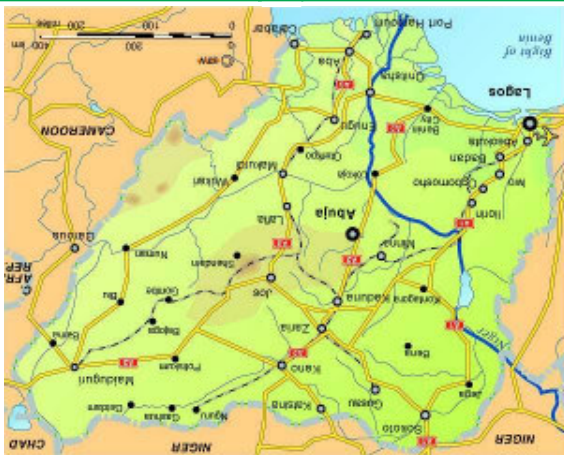
MAJOR INTERNATIONAL FLIGHTS TO ABUJA



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The Global Institute for Energy and Environmental Systems (GIEES) is an internationally recognized, cross-college, interdepartmental and multi-disciplinary research, educational, policy and outreach unit of the University of North Carolina. Its program focuses on environmental issues associated with industrial, civil and energy infrastructure development and operation. Its objectives are to: (1) perform cross-disciplinary research and provide technical support to local, state, and federal agencies on environmental issues pertinent to environmentally sustainable development, energy infrastructure, and hazard mitigation; (2) enhance the capacities of traditional academic departments at UNC Charlotte to provide high quality cross-disciplinary research experience to students on critical environmental and energy issues; (3) develop research and allied program links with other institutes and centers globally on critical environmental issues, and lead consortia of universities on collaborations under the auspices of national and international agencies such as the United Nations and the World Health Organization; and (4) operate professional development, outreach, and technology transfer activities such as seminar and colloquia series, international conferences, and exchange programs that, together with strong research and academic programs, will improve sustainable development programs of program sponsors and continue to support UNC Charlotte's role as a leading university on integrated analyses of energy and environmental systems. More information on GIEES is available on the internet at: <http://www.giees.uncc.edu>





MAP OF NIGERIA SHOWING MAJOR CITIES AND THE CAPITAL, ABUJA

CALL FOR ABSTRACTS AND EXHIBITIONS
INTERNATIONAL CONFERENCE ON
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Global Institute for Energy and Environmental Systems
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Phone: 704-687-2182 Fax: 704-687-3115
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ABSTRACT SUBMISSION DEADLINE: FEBRUARY 25, 2006