



**INTERNATIONAL
CONFERENCE
ON
RENEWABLE ENERGY
FOR
DEVELOPING COUNTRIES
2006**

ICREDC-06

(www.icredc.udc.edu)

**OMNI Shoreham Hotel
Washington, DC**

April 6-7, 2006

Conference Program

Sponsored by the

**School of Engineering and Applied
Sciences**

University of the District of Columbia

**Registration: Wed. April 5: 2:00-7:00PM, Thurs.,
April 6: 7:00-5:00PM, Fri. April 7: 7:00AM-
2:00PM. The daily registration is possible for
\$250. Registration for the following sessions can also
be made separately for \$100 each: Plenary Session,
Int'l Organizations & NGO Forum, Ambassadors'
Panel and either of the two Dinner Banquets.**

Thursday, April 6, 2006

***PLENARY SESSION, 8:00AM – 10:00AM,
Hampton Ballroom: Conference Introduction***

Conference Introduction: Conference Co-Chairs, Dr. Segun Adebayo, Dr. Samuel Lakeou

Greetings: Dr. William L. Pollard, UDC, President

Introduction of Keynote Speaker: Dr. Ben O. Latigo, Dean,
School of Engineering & Applied Sciences and Chair,
ICREDC Advisory Board.

Keynote Speaker: Undersecretary of Energy, David K.
Garman Science & Environment U.S., Department of Energy

***Coffee Break, 10:00 AM -10:30AM, Hampton
Foyer***

***PRESENTATIONS, 10:30AM 12:30PM, Capitol Room:
Micro-Business Model, Social and Economical Impact of
Renewable Energy in Developing Countries***

Teodoro Sánchez, Arthur Williams, Stephen Porter
Critical Factors for Success of Stand Alone Energy Schemes

Nancy Wimmer
Microfinance for Rural Energy Services in Developing
Countries

Arthur Williams, Nigel Smith
Comparison of Hydropower Options for Developing Countries
with regard to the Environmental, Social and Economic Aspects

G. Biru Worku
Strategic Approach to Electrify Rural Ethiopia

***PRESENTATIONS, 10:30AM – 12:30PM, Calvert Room:
Sustainable Renewable Energy Models, Evaluation and
Analysis***

Asmerom M. Gilau, Mitchell J. Small
Designing Cost-Effective Sea Water Reverse Osmosis System
under Optimal Energy Options for Developing Countries

Marcel Šúri, Thomas Huld, Ewan Dunlop, Michel
Albuissou, Lucien Wald
Online Data and Tools for Estimation of Solar Electricity in
Africa: the PVGIS Approach

Saeed D. Foroudestan, Olivia Dees
Solar Power and Sustainability in Developing Countries

T. A. Akintola
Application Potentials and Sustainability of Solar Energy in
Nigeria

***PRESENTATIONS, 10:30AM – 12:30PM, Governors Room:
Application of Sustainable Renewable Energy in Developing
Countries***

Zahnd Alex and Haddix McKay Kimber
Renewable Energy Village Power Systems for Remote and
Impoverished Himalayan Villages in Nepal

Víctor José Passamai and Jorge Luis Alvarado
Application of Sustainable Renewable Energy in Developing
Countries: Food Drying and Solar Cookers usage in Northern
Argentina

G.E. Ayvazyan, K.Z. Khachikyan, A.H. Vardanyan
Optimal Design and Use of Photovoltaic Water Pumping
System in Armenia

BUFFET LUNCH, 12:30 - PM 1:30PM, Hampton Foyer

***ORAL PRESENTATIONS, 2:00PM – 4:00PM, Capitol Room:
Renewable Energy Policy***

I. K. Dabipi, Joseph Dodoo and Isoken T. Aighewi
Diversifying African Energy Sector: Some Policy Initiatives

W. Wolde-Ghiorgis
Needs for Addressing low Impacts of Energy Policy on
Renewable Energy Development in Ethiopia: Options for
Lessening Gaps and Barriers

O. U. Oparaku
Solar-Photovoltaics in the Deregulated Electricity Industry of
Developing Countries

O. Bamidoro, D. Karter, S. Omojuanfo, E. Ososanya
Renewable Energy Policy in the DC Metro Area

***ORAL PRESENTATION, 2:00PM – 4:00PM, Calvert Room:
Sustainable Renewable Energy Models, Evaluation and
Analysis***

Gregory S. Mowry
Unconventional Energy Sources and Research in Moldova

Ruy Spencer Lopes dos Santos
Thermal Wind Solar Power Plant as a Solution of the Energy Security Supply Problem on Islands

S. Lakeou, E. Ososanya, Ben O. Latigo, W. Mahmoud
Design of a Low-Cost Solar Tracking PV and Wind Power system.

ORAL PRESENTATION, 2:00PM – 4:00PM, Governors
Room: Application of Sustainable Renewable Energy in Developing Countries

D. Muchow, T. Tekabe
Sustainable Economic Development for Renewable Energy in Ethiopia

M. Saleh Ibrahim Al-Jadi, M. A. EKhlal, N. M. Krema
Photovoltaic in Libya Applications and Evaluation

Richard Komp, Susan Kinne
Creating a solar Culture in Nicaragua via a University-Community Knowledge Cycle

Coffee Break 4:00PM-4:30PM, Hampton Foyer

INTERNATIONAL & NON-GOVERNMENTAL ORGANIZATIONS' FORUM, 4:30PM-6:30PM, Hampton Ballroom (Panelist, TBA)

DINNER BANQUET, 7:00PM – 9:00PM, Diplomat Ballroom, Guest Speaker: Dr. Pablo Rosenthal-Brendel, Senior Energy Economist, The World Bank

Friday, April 7, 2006

ORAL PRESENTATIONS, 8:00AM – 10:00AM, Capitol
Room: Research in Sustainable Generation of Renewable Energy

R. Gupta, R. Das & K.K. Sharma
Experimental Study of a Savonius-Darrieus Wind Machine

Hassan Moghbelli, Robert Vartanian
Implementation of the Movable Photovoltaic Array to Increase Output Power of the Solar Cell

Vikram D Kaushik S, Prashanth V, Nallusamy N. An
Improvement in the Solar Water Heating Systems using Phase Change Materials

R.G. Simpson, A.A. Williams
Application of Computational Fluid Dynamics to the Design of Pico Propeller Turbines

ORAL PRESENTATIONS, 8:00AM – 10:00AM, Calvert
Room: Curriculum Development in Renewable Energy

R.B. Bass, J. M. Yarbrough
A New, Open-Curriculum Bachelors of Science Degree in Renewable Energy

Maria Consuelo García Álvarez and Martha García-Sáenz
Teaching Renewable Energy in a Developing Country, Experiences Over More Than Two Decades

W. Mahmoud
Higher Education for Sustainability

ORAL PRESENTATIONS, 8:00AM – 10:00AM, Governors
Room: Biomass

Walter L. Bradley, Jason Poel, and Howard Huang
Cocos Nucifera: An Abundant Renewable Source of Energy

R. Patel
Production of Biomass Power, Potable water, and Value-added Agricultural Products through Surya Integrated Agroproduction System

Sunil Dhingra, N. K. Ram and M. K. Shukla
Experience, Learning and Challenges Related to Developing Sustainable Biomass Based Models for Rural Electrification

Coffee Break, 10:00AM-10:30AM, Hampton Foyer

AMBASSADORS' Panel, 10:30AM – 12:30PM Hampton Ballroom, Panelists (TBA)

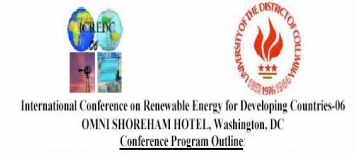
BUFFET LUNCH, 12:30PM 1:30PM, Hampton Foyer

VISIT TRIP to the VAN NESS CAMPUS of UDC, 2:00PM-5:00PM: INAUGURATION OF THE CENTER OF EXCELLENCE FOR RENEWABLE ENERGY (CERE)

Outdoor Amphitheatre, Guest Speaker: **Mr. Chuck Clinton**, Director of the DC Energy Office

DINNER BANQUET, 7:00PM – 9:00PM, Palladian Room

Guest Speaker: The Honorable Congressman **Mike Honda (D)**, 15th Dist. California, Ranking Member of the Congressional Energy Subcommittee



Timeline	April 6: Registration 7:00AM-5:00PM	E	April 7: Registration 7:00AM-2:00PM
7:00AM - 8:00AM	Continental Breakfast <Hampton Foyer>	X	Continental Breakfast <Hampton Foyer>
8:00AM - 10:00AM	Opening Plenary Session Greetings & Introduction Keynote Speaker: David K. Garman US Undersecretary of Energy	H I B	Topic 1 Topic 6 Topic 7
10:00-10:30AM	Break <Hampton Foyer>		Break <Hampton Foyer>
10:30AM - 12:30PM	Topic 4 Topic 3 Topic 2	I T S	Ambassadors' Panel <Hampton Ballroom>
12:30PM - 1:30PM	Buffet Lunch <Hampton Foyer>		Buffet Lunch <Hampton Foyer>
2:00PM - 4:00PM	Topic 5 Topic 3 Topic 2	Embassy Room	Visit Trip to UDC Van Ness Campus: Inauguration of the Center of Excellence for Renewable Energy (CERE) Guest Speaker: Mr. Chuck Clinton Director, DC Energy Office 2:00PM-5:00PM
4:00-4:30PM	Break <Hampton Foyer>		
4:30PM - 6:30PM	International and Non-Governmental Organizations' Forum <Hampton Ball Room>		
7:00PM - 9:00PM	Dinner Banquet <Diplomat Ballroom> Guest Speaker: Dr. P. Rosenthal- Brendel, Senior Energy Economist, The		Dinner Banquet <Palladian Ballroom> Guest Speaker: CA Congressman, The Honorable Mike Honda.

Sessions in rooms: CAPITOL (left column), CALVERT (middle column), GOVERNORS (right column)

The sessions include oral presentations on the following (color coded) topics:

- Topic-1: Research in sustainable generation of renewable energy
- Topic-2: Application of sustainable renewable energy in developing countries
- Topic-3: Sustainable renewable energy models, evaluation and analysis
- Topic-4: Micro-business model, social and economic impact of renewable energy systems
- Topic-5: Renewable energy policies
- Topic-6: Curriculum development in renewable energy
- Topic-7: Biomass

