



UNIVERSITY of DELAWARE

UD-Africa

Energy Conference

Program

Monday, April 25, 2016

8:00 a.m. **Registration/Continental Breakfast**

8:30 a.m. **Opening Remarks** **Rm. 125**
Prof. Douglas Buttrey
Department of Chemical & Biomolecular Engineering
Dr. Nancy Targett
Acting President, University of Delaware

US-Africa Engagement **Rm. 125**

8:45 a.m. **Chris Coons**
U.S. Senator (DE)

9:15 a.m. **Prof. Daniel Rich**
Strengthening UD/Africa Connections

9:45 a.m. **Dr. Sibusiso Vil-Nkomo**
The Political Economy of Sustainable Development in an Emerging Market Economy: The Policy Trajectory on Energy in the Case of South Africa

10:15 a.m. **Break/Poster Session** **Lobby**

11:00 a.m. **Panel Discussion**
moderated by Ralph Begleiter

Panelists:

- Prof. Olurinde Lafe
- Mr. Bonaventure Mbida-Essama
- Prof. Daniel Rich
- Dr. Sibusiso Vil-Nkomo

12:00 p.m. **Lunch** **Rm.101A**

Fuel Cells **Rm. 125**

1:15 p.m. **Prof. Ajay Prasad**
Recent Developments at the UD Center for Fuel Cell Research

1:40 p.m. **Dr. Dmitri Bessarabov**
South African Hydrogen Infrastructure (HySA Infrastructure) for Fuel Cells in Energy Storage: Recent Developments and Road Map

2:05 p.m. **Prof. Yushan Yan**
Toward a Distributed Renewable Electrochemical Energy and Mobility System (DREEMS): Polymer Electrolytes and Electrocatalysis

2:30 p.m. **Dr. Cordellia Sita**
HySA Systems: Research and Development Activities

3:00 p.m. **Break/Poster Session** **Lobby**

Catalysis **Rm. 125**

3:30 p.m. **Dr. Sharon Blair**
HySA Catalysis: Creating Opportunities to Move the World's Platinum Nation up the Value Chain

4:00 p.m. **Prof. Raul Lobo**
Catalysis' Role in Energy Production in the 21st Century

4:30 p.m. **Prof. Patricia Kooyman**
Catalysis Research Using in situ Transmission Electron Microscopy: Synthetic Fuel Production

7:00 p.m. **Dinner, Courtyard Marriott, Salon A**

Keynote Address ~

*Climate Smart Nigeria:
The Challenges and the Opportunities*

Glory Oguegbu
2015 Mandela Washington Fellow



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Tuesday, April 26, 2016

8:00 a.m. **Continental Breakfast** Lobby

8:20 a.m. **Prof. Michael Klein**
Director, UD Energy Institute

Photovoltaics and Wind Rm. 125

8:30 a.m. **Dr. Steve Hegedus**
*Trends in Solar Photovoltaics:
From Rooftops to Gigawatt Arrays
to Microgrids*

9:00 a.m. **Dr. Benard Muok**
*Solar Energy Development in Africa:
Successes and Challenges*

9:30 a.m. **Ms. Dipolelo Jane Elford**
Beating the Drums for Renewable Energy

10:00 a.m. **Prof. Jeremy Firestone**
*Wind Power at a Distance: A Voyage
around the Globe, the US and Africa*

10:30 a.m. **Break/Poster Session** Lobby

Solar Thermal and Biomass Rm. 125

11:00 a.m. **Prof. Olayinka S. Ohunakin**
*Simulating the Wind Power Potential under
Future Afforestation in Nigeria*

11:30 a.m. **Dr. Sameer Hameer**
*Round Trip Efficiency Formulation for Comparing
Thermal Energy Storage Systems to Electrical Energy
Storage Systems*

12:00 p.m. **Prof. Bingjun Xu**
*Biomass as a Renewable Feedstock for Fuels
and Bioproducts*

Lunch and Closing Remarks

12:30 p.m. **Prof. Ajay Prasad**
Director, Center for Fuel Cell Research

Lab tours

1:30 p.m. CCST/Lobo (Colburn)
CCEI/Vlachos (ISE Lab)
CFCR/Prasad (ISE Lab)
Yan Lab (ISE Lab)
Microscopy/Materials Characterization/
Nano Lab (ISE Lab)