

## Clean Energy Technologies Workshop 2012 (CETW 2012)

March 20-22, 2012 , Ottawa, ON, Canada

### **Introduction:**

Clean Energy Technologies Workshop (CETW) is an annual workshop organized by TLR Consulting Company based in Ottawa, Ontario, Canada with the global vision of increasing the knowledge of alternative energy technologies and stimulating their rapid development to address the challenges of energy security, sustainability and environmental pollution.

### **Workshop Theme:**

Bio-ethanol and Bio-diesel Energy (Fuel) Technologies

### **Workshop Topics:**

- Conventional energy technologies (fossil fuels – coal, crude oil, oil sands, oil shale and natural gas; and nuclear power);
- Ethanol and biodiesel manufacturing;
- Bio-ethanol and bio-diesel for power generation;
- Materials for making Ethanol and Bio-diesel:
  - Wastes to fuel: Obtaining bio-ethanol and bio-diesel from wastes: -Agricultural wastes, municipal solid wastes, waste vegetable oil (WVO), animal remains, rotten fruits
  - Energy crops for bio-ethanol and bio-diesel - sugarcane, sugar beets, cereal crops (corn, millet, wheat etc), cassava, switchgrass, miscanthus; hybrid willows, hybrid poplar, jatropha, soybean, palm tree fruits, wood or woody materials etc.;
  - Wood and Algae
- Catalysts and Enzymes - Best friends in bio-ethanol and bio-diesel production;
- Establishing small scale and large scale bio-ethanol and bio-diesel manufacturing plants – Materials, Costs, and Expertise;
- Development of small scale and large scale power generating plants based on ethanol and biodiesel – Materials, Cost and Expertise requirements; and
- Implementing Bio-ethanol and bio-diesel in developing countries.
- Other topics: Brief introductions to solar energy, wind energy, geothermal energy and other alternative energy solutions for power / electricity generation
- Two (2) days in-door sessions and a possible (optional) technical site tour of a bio-ethanol and/or bio-diesel manufacturing plant in or near Ottawa, ON Canada for participants who may be interested.

### **About TLR Consulting:**

TLR Consulting is an Engineering and Energy Consulting company registered with the Province of Ontario, Canada. TLR provides consultancy, training and publication services in Civil/Environmental Engineering, climate change/global warming issues and Energy (Renewable and non-renewable) management. TLR's expertise in the energy industry include Fossil fuel technologies (including Clean fossil fuel technologies), and the renewable energy mix (Solar, Wind, Biofuels, Geothermal and the Waste to Energy technologies). TLR also have good experience in carbon offsetting, carbon trading (CDM, JI and Emissions trading). Our clients include national, provincial and international governments, companies in the energy and utilities industries and bank/financial institutions.

### **About the Workshop Facilitator:**

**Dr. Dele Morakinyo, P.Eng.**

The main facilitator for this workshop is Dr. Dele Morakinyo. Dr. Morakinyo is a former University Professor, a Senior Professional Engineer and Project Manager of over 25 years. He holds PhD in Civil/ Environmental Engineering from the University of Newcastle Upon Tyne, United Kingdom. He has professional engineering (P.Eng./equivalences) certifications with engineering bodies in Europe, North America and Africa.

Dr. Morakinyo's expertise include water supply; waste management; environmental science and engineering; pollution control/prevention; climate change/global warming issues; and the sustainable generation of power from various sources (renewable and non-renewable). He is the author of the book:

***"Clean Energy Fuels – Wood, Ethanol, Biodiesel and Biogas"***

*(<http://www.tlrconsulting.com/cleanfuels.com>)*

Dr. Morakinyo is a regular speaker at international conferences and an excellent workshop facilitator.

### **Other Facilitators/Workshop Officials:**

#### **Dr. J. Roy Joseph**

Dr. J Roy Joseph is an international consultant in Technology and Development. A physicist and an engineering graduate of the Indian Institute of Technology, he has an earned doctorate in Management Sciences from The University of Waterloo in Canada. He has over 30 years' experience in industry, teaching, research, and international consulting with organizations of global distinction.

Though much of his career has been in telecommunications and in international development, his current passion is Sustainability and Environment Management. He is a founding member and past Director of the Cleantech Task Force at the 'Ottawa Talent Initiative'. The Task force consists of former hi-tech professionals who are passionate about, and seeking a career transition to, Sustainability and Environment Management. Roy is also a board member of the Solar Energy Society of Canada, Inc. (SESCI).

#### **Mr. Ola Bamikole**

Mr Ola Bamikole is the CEO of Zenith Agroethanol Nigeria Limited registered in 2006 (Subsidiary of Zenith International LLC, USA registered in 2008). His company offers Consultancy services in Bio-energy and Renewable energy development within and outside Nigeria mostly in the United States. He had successfully worked as a process systems manager for Coca-Cola bottling company in Nigeria for 6yrs after working as a pioneer R & D Manager and QA manager in the first ethanol manufacturing plant in Nigeria for 5years. Mr Bamikole was the first process technologist in Africa in the commercialization of cassava to ethanol in 1994. He is a contributor to the book "**Alcohol can be a Gas**" by David Blume in Aptos, California. He is a clean energy/bio-energy speaker at Conferences in Africa, United States and Asia. He is currently consulting for US/Nigeria agencies on clean cook stoves value chain analysis and interaction using ethanol as fuel.

#### **Ms. Emily Beveridge, BSc, Environmental Science**

Ms. Beveridge has a Bachelor of Science degree in Environmental Science (Honours) from Acadia University, Canada. Ms. Beveridge's areas of expertise include regulatory and policy issues, social and economic aspects of sustainable development, as well as the politics of the environment and sustainable development. She has worked as a consultant to various environmental NGOs including the Foundation of Sustainable Development; Restore the Earth Foundation; Frontenac Arch Biosphere Reserve and a local local NGO in Kakamega, Kenya. With these organizations, Ms. Beveridge assisted in developing and implementing several environmental and sustainable development projects. Ms. Beveridge is a detailed-oriented individual and possesses tremendous coordination and organizational skills.

### **Workshop Details:**

**Venue:** Travelodge Hotel & Conference Centre, 1376 Carling Avenue Ottawa, ON K1Z 7L5 CANADA.

**Accommodation:** Rooms are available at Travelodge Hotel. Each participant should contact the hotel directly to make reservations.

**Date:** March 20-22, 2012; (9:00 a.m. to 4:30 p.m. each day).

#### **Registration:**

For registration instructions please go to the workshop's official website:

<http://www.tlrconsulting.com/cetw2012/>

#### **Who to Attend?**

- Individuals or groups working with government, government agencies/parastatals and private companies/ institutions;
- Bankers and financial institutions financing projects including Clean Development Mechanism (CDM) renewable energy projects, Joint Implementation and Emission Trading / Cap & Trade;
- Employers and employees of Oil and Gas/Energy Companies;
- Academics, researchers & students working on energy sources (renewable/non-renewable); &
- All other individuals or groups connected with or interested in energy, sustainable development, environmental conservation, Climate Change / global warming mitigation, Carbon offsetting etc;

#### **Exhibition:**

Are you a biofuel company, research centre or academic institution who would like to showcase biofuel products, research results or attract students? If so, send e-mail to the workshop coordinator at [cetw@tlrconsulting.com](mailto:cetw@tlrconsulting.com) to book your Stand.

#### **Sponsorship:**

Become a sponsor of CETW and expose your products and services to the Canadian and international clean energy market. Send e-mail to the coordinator at [cetw@tlrconsulting.com](mailto:cetw@tlrconsulting.com) for more details on sponsorship opportunities.