



The Energy and Resources Institute

Scientific Program

First KISR-TERI Joint Workshop on Research Cooperation

May 25- 27, 2015

Organized By:

**The Energy and Resources Institute
New Delhi, India**

Background

Kuwait Institute for Scientific Research (KISR) was set up in 1967 by Japan's Arabian Oil Company Limited and was restructured by an Amiri decree in 1973. The main objectives of the institute were to carry out applied scientific research, especially that related to industry, energy, agriculture, and the national economy; to contribute to the economic and social development of the state; and to advise the government on the country's scientific research policy. In 1981, an Amiri decree was issued to reconfirm KISR's role in the development of scientific research and technology in the country. This decree entrusted the institute with undertaking research and scientific and technological consultations for both the governmental and the private sectors in Kuwait, the Arabian Gulf region and the Arab world, and encouraged collaboration with international institutes.

The Energy and Resources Institute (TERI), a dynamic organization with a global vision, was established in 1974. Research activities reflect TERI's firm commitment for efficient utilization of energy and sustainable use of natural resources would propel the process of development. TERI is a leading institution working towards sustainability and has several regional centers in India and affiliate institutes in the US, Europe and UK. It has established its presence and research bases in several countries to both provide technical assistance and facilitate exchange of knowledge.

KISR and TERI have signed the MOUs on May 8, 2014 for scientific and technical cooperation. In order to implement the provisions of the MOU, TERI is organizing the joint workshop in New Delhi during May 25-27, 2015. The main purpose of this workshop is to exchange latest technologies and prepare a roadmap for implementing joint research activities for mutual benefit of both organizations.

Main Topics

- Desert agriculture, sustainable greenhouse cooling and sustainable agricultural practices.
- Microbial biotechnology.
- Native seed coating and seed enabling technologies.
- Soil enrichment with organic matter from waste water generated biomass in arid climatic conditions.

Workshop Coordinators

Dr. Faiza Al-Yamani, Executive Director
Environment and Life Sciences Research Center
Kuwait Institute for Scientific Research

Dr. Banwari Lal, Director
Environmental and Industrial Biotechnology Division
The Energy and Resources Institute

Day 1, May 25, 2015

Venue: Conference Room, 4th Floor , TERI IHC, New Delhi

9:30 – 9:40	Welcome address by TERI : Dr Banwari Lal, Director, Environmental and Industrial Biotechnology Division
9:40 - 9:50	Opening remarks by KISR delegation : Dr. Mohammad Albaho
9:50 – 10:30	<p>Lecture 1: DAEP research priorities during 8th strategic plan (2015 - 2020) Speaker: Dr. Mohammad Albaho</p> <p>Lecture 2: Biotechnology program research priorities during 8th strategic plan (2015-2020) Speaker: Dr. Fadila Al-Salameen</p>
10:30 – 12:30	<p>Lecture 3: Restoration of degraded terrestrial ecosystems in Kuwait Speaker: Dr. Mohammed Albaho (KISR)</p> <p>Lecture 4: Cooperation opportunities in desert agriculture and sustainable protected environment agriculture research Speaker: Dr Nutan Kaushik</p> <p>Discussion - Desert Agriculture and Sustainable Agricultural Technologies Moderator - Dr. Nutan Kaushik, TERI</p> <p>Discussants - Dr. Mohammed Albaho (KISR) Dr Shashi Bhushan Tripathi (TERI) Dr Swatishmita Dhar(TERI) Dr Vijay Sandeep Jakkula(TERI) Dr Hemraj Chippa(TERI) Dr Harpreet Kaur(TERI)</p>
12:30 – 1:30	<p>Lecture 5: Soils Kuwait and reclamation strategies Speaker: Dr. Hani Al-Zalzaleh</p> <p>Lecture 6: Mycorrhiza-assisted reclamation Technologies</p>

	<p>Speaker: Dr Manab Das Discussants</p> <p>Dr. Hani Al-Zalzaleh (KISR) Dr Manab Das(TERI) Dr Vijay Sandeep Jakkula(TERI) Dr Hemraj Chippa(TERI)</p>
1:30 – 2:30	Lunch
2:30 – 4:00	<p>Lecture 7 : Research opportunities : Microbial Biotechnology/ Bioremediation Technology Speaker : Dr Sanjukta Subudhi</p> <p>Discussion : Microbial Biotechnology/ Bioremediation technology Moderator : Dr Banwari Lal(TERI)</p> <p><u>Discussants:</u></p> <p>Dr. Fadila Al-Salameen (KISR) Dr Sanjukta Subudhi(TERI) Mr Veeranna Channashettar(TERI) Dr Dheeban C Kannan(TERI) Dr K Nanthakumar(TERI) Dr Ranjeet Singh(TERI) Mr C Paul Jeyaseelan(TERI) Mr Mukesh Yadav(TERI) Mrutyunjaya Mohanty(TERI)</p>
4:00 – 4:15	Tea break
4:15 – 5:45	<p>Lecture 8: Soils Kuwait and reclamation strategies Speaker: Dr. Hani Al-Zalzaleh</p> <p>Lecture 9: Green and sustainable technologies. Speaker: Dr Dipankar Saharia(TERI) Dr Swapan Kumar Sinha(TERI)</p> <p>Discussion: Soil Enrichment with Organic Matter from Waste Water Generated Biomass in Arid Climatic Conditions</p>

	<p>Moderator: Dr. Dipankar Saharia(TERI)</p> <p><u>Discussants:</u></p> <p>Dr. Hani Al-Zalzaleh (KISR) Dr Swapan Kumar Sinha(TERI) Dr Vidya S Batra(TERI) Dr Meeta Lavania (TERI) Dr. Piyush Joshi(TERI) Dr. Raj Kishore Kapardar(TERI)</p>
5:45 – 6:15	Roadmap for Implementing Joint projects/ activities
6:15 – 6:30	Concluding remarks and additional topics/ Areas for cooperation

Day 2, May 26, 2015

Venue: Visit to TERI Gram

10:00- 11:00	Visit to TERI Lab Facilities, IHC New Delhi
11:05	Departure for TERI Gram, IHC
12:00 – 12:15	Tea/Coffee at TERI Retreat
12:15 – 1:00	Lab Visit
1:00 - 2:00	Lunch at TERI Retreat
2:00	Departure for Hotel

Day 3, May 27, 2015

Visit to Agra - 7:00 am