

# **Green Science & Green Technology Workshop**

1. Area : Organized jointly with the KRCCF to cover the LIFEN areas of the UKC2009.

2. Title : Green Science & Green Technology (GS/GT) Workshop

3. Objectives:

To draw a cooperation plan between US and Korea through Investigation of US Green Science and Technology Research Status and Human Resources, the Green Science and Green Technology (GS/GT) Workshop jointly organized with the KRCCF is proposed to cover the five areas (LIFEN) of the theme Global Sustainability at the organizational level of the UKC2009.

In particular, the subject such as the green house gas (GHG) has been known as the direct cause of the global warming which will eventually lead to the destruction of the planet earth, if unabated. The GHG is the by-product of the combustion of fossil fuels, which is still the major source of energy for the mankind. The reduction of the GHG and its control are certainly one of the great challenges that the mankind has faced. Energy is consumed, however, in the form of electric power in our household and most of industries regardless of the energy sources to generate the electric power, regardless of whether they are renewable or non-renewable energy sources. Therefore, the efficiency of the devices or equipment to convert the electric power to useful duties has an additional impact on the sustainability of the civilization of the mankind.

This Workshop will provide scientists and engineers in both U.S. and Korea with the opportunities to exchange fundamental information, which will contribute to the solution of these important issues.

4. Scope:

To meet the objectives above, the Workshop will focus on the fundamental issues related with the following fields but not limited to:

- (1) Renewable energies such as solar, bio-energy, fuel cell
- (2) Clean Coal energy (CTL, BTL)
- (3) Energy storage
- (4) LED
- (5) High Efficiency system & components
- (6) Fusion
- (7) Other future energy technologies

The one-day Green Science and Green Technology Workshop will include the group discussions among a few groups comprising of the participants in Energy Symposiums and Energy Workshop 1 & 2 and other relevant areas, followed by tentative conclusions on potential proposals in the fields that both US & Korea sides may have common interests.

5. Chair of the Workshop in US: Jane C. Oh, JP Laboratory  
Co-Chair of the Workshop in US: Yong Nak Lee, HTRD  
Workshop Coordinator (to assist the organizers): Kwangwoo Oh)