

INTRODUCTION TO INTERNATIONAL CONFERENCE

The "3-Days International Bioenergy Conference" will provide opportunity for bioenergy experts, industrialists, academic researchers, bioenergy focused organizations and new entrants to come together to explore cutting edge concepts and recent applications in bio-energy sector.

Energy consumption is increasing steadily with the population growth and industrial development. Due to diminishing conventional energy resources it is difficult to cope and balance between the fuel demand and its providence. Therefore, there is great interest in exploring alternative energy source to maintain the sustainable growth of the society. Most of under develop countries have not yet started the mitigation process for this problem and are facing liquid fuel deficit. As an immediate way out, they are looking ahead for fuel imports but the major fuel exporting countries are themselves at the nick of peak oil production, the terminal decline. Pakistan has agricultural base economy and is striving to develop industries. Pakistan, despite of an enormous potential for energy resources, remained energy deficient and has to rely heavily on imports to meet its requirements. During early 1980 crude oil production was only 13000 barrels per day (BPD), which rose to 64,350 BPD in 1991-92. During the year 2005-2006, 8.3 million barrels of oil and 6 million barrels of petroleum products were imported and cost of these imported products was 3803 million \$ and 2843 million \$ respectively. The total primary energy consumption in Pakistan is currently estimated at around 60.4 million tons of oil equivalent (MTOE). Consequently, it appears that Pakistan would continue to remain a net importer of oil and refined oil products unless a major discovery of oil is made.

Due to this increasing demand of energy and greatly increased in environmental problems, people are focusing on some renewable and environmentally

friendly energy sources. Therefore during last two decades most of research was focused on developing an economical and environmentally friendly biofuel production process. Biofuels are alcohols, ethers, esters and other chemicals made from cellulosic biomass such as herbaceous and woody plants, agriculture and forestry residues, and a portion of industrial and municipal wastes.

The present International Conference is designed to provide both theoretical and practical knowledge of current Bioenergy production technologies and their applications.

OBJECTIVES

- To strengthen the knowledge of existing scientific manpower.
- To high light the available resources and important biofuels issues.
- Exhibition of bioethanol and relevant products obtained from fruits, seeds and agricultural wastes for general public.
- Enhance activities of Bio fuel production and its use as alternative fuels for transportation.
- Improving idea of self reliance in country and disseminate this knowledge to young scholars through practical demonstration.

MAIN TOPICS

Papers/abstracts will be accepted on following main topics for oral and poster presentation.

- ❖ Bioethanol, Biodiesel, Biogas and Biohydrogen Production Technologies
- ❖ Biofuel and Electricity Generation
- ❖ Biofuel based Automotives and Aviation
- ❖ Energy Crops, Biosourced Materials, Renewable Resources for Bioeconomy
- ❖ Pretreatment and Transformation of Lignocelluloses
- ❖ Novel fermentation Products and Processes
- ❖ Chemical Platform Molecules, Biobased Chemicals

- ❖ Biofuel Refining, Biofuel standards, IPs and Regulations
- ❖ Biofuel Investment, Trade and Marketing

ELIGIBILITY AND SELECTIONS OF PARTICIPANTS

The conference is open to academic researchers (University Teachers, Researcher and Research Students) as well as experts, researchers and policy makers from alternative energy resource focused industries and organizations. The participant will be selected by the selection committee on the basis of

1. Relatedness of their present and future research activities to the bio-fuel technology.
2. Present level of back ground information to effectively assimilate the contents of this conference.
3. Minimum qualification of the applicant is Masters in Life Sciences.

The list of selected participants will be displayed at university website (www.uaar.edu.pk). The registration fee for the participants is Rs.1200/- for employees/researchers and Rs.800/- for students which is payable on the spot at the registration desk in cash. Interested candidates are requested to send their applications by 31st December 2011.

ABSTRACT SUBMISSION

Papers/abstracts are invited for oral and poster presentation. Abstract must be prepared in MS-Word not more than 300 words and must contain title, author(s) name, keywords and contact address including email of corresponding author. Abstracts should be submitted through email. The last date for submission is 15th January 2012. All submitted abstracted will be scrutinized and selected authors will be informed.

VENUE

The International Conference will be held in the University Institute of Biochemistry and Biotechnology, PMAS AAUR.

ORGANIZING COMMITTEE

- Patron** **Prof. Dr. Khalid Mahmood Khan S.I.**
Vice Chancellor
PMAS–Arid Agriculture University
Rawalpindi (PMAS AAUR)
- Coordinator** **Prof. Dr. Muhammad Gulfraz**
Chairman
Department of Biochemistry
PMAS AAUR
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3-DAYS INTERNATIONAL BIOENERGY CONFERENCE

March 13–15, 2012



Sponsored by
Higher Education Commission
Of Pakistan



Organized by
University Institute of Biochemistry
and Biotechnology
PMAS–Arid Agriculture University
Rawalpindi,
Murree Road, Rawalpindi 46300