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CHAIRMAN'S MESSAGE

HONORARY SECRETARY'S DESK

Er. S.Radhakrishnan, FIE

IEI Kerala State Centre under the aegis of Agricultural Engineering Division Board of IEI and in association with various departments and institutions conducted a two-day All India Seminar and Exhibition on 29th and 30th August 2011 which was inaugurated by Hon'ble Chief Minister of Kerala. Seeing our enthusiasm Hon'ble Minister for Agriculture agreed to give full support for conducting a national convention next year.



Experts in the relevant field presented papers during three sessions which were very much relevant. Agriculture machinery exhibition was well attended by public and it gave boost to our engineers to develop user-friendly equipments.

Let me congratulate and offer my hearty thanks to all who have toiled hard to make the event a grand success.

44th ENGINEERS' DAY CELEBRATION

Engineers' Day address on the theme, "Engineering Preparedness for Disaster Mitigation" by the chief guest Padmashree Prof. R.M. Vasagam, Vice-President, Dr.M.G.R. Educational and Research Institute, Chennai & Chairman, BOG-NDRF, IEI at 5.45 pm on **15-09-2011** at Visvesvaraya Bhavan, Thiruvananthapuram.

Er. J. Umasankar, MIE

Kerala State Centre - Diary

07-09-2011 Talk on "Status of Solid Waste Management In Kerala" by Er.M.Dileep Kumar, Director, Suchitwa Mission, LSD, Government of Kerala.



15-09-2011 44th ENGINEERS' DAY CELEBRATION

21-09-2011 Technical talk on "Evolution of Aviation" by Dr.Jeyakumar Thomas, Retd. Group Head, Quality and Reliability Assurance, LPSC, ISRO, Thiruvananthapuram.

28-09-2011 Technical talk on "Technical Standards and Standardisation Process" by Prof.S.Viswanatha Rao, Professor & Head, Dept of Electronics and Communication, Mar Baselios College of Engineering & Technology, Thiruvananthapuram.

05-10-2011 World Habitat Day Celebration - Er.May Mathew, Town Planner, Greater Cochin Development Authority will deliver the lecture on the theme "Cities and Climate Change".



All India Agriculture Seminar - 29 & 30 August 2011

Recent Trends in Agricultural Mechanisation for Efficiency Improvement

Organized by The Institution of Engineers (India), Kerala State Centre under the aegis of Agricultural Engineering Division Board and co-sponsored by NABARD

in association with Faculty of Agriculture Engineering, Kerala Agricultural University, Department of Agriculture, Government of Kerala, Kerala Agro Industries Corporation, Kerala Livestock Development Board, Kelappaji College of Agricultural Engineering and Technology, Tavanur, Alumni Association, Kelappaji College of Agricultural Engineering and Technology, Tavanur



The Institution of Engineers (India), Kerala State Centre organized a two-day All India Seminar on the theme, "Recent Trends in Agricultural Mechanisation for Efficiency Improvement" during 29-30 August 2011, at Visvesvaraya Bhavan, Thiruvananthapuram.

Hon'ble Chief Minister of Kerala, Sri.Oommen Chandy inaugurated the seminar. In his address, Hon'ble Chief Minister assured all possible government support to boost agriculture. He urged Agricultural Engineers to increase productivity by mechanisation.



Hon'ble Chief Minister of Kerala, Sri. Oommen Chandy, inaugurating the seminar by lighting lamp.



Hon'ble Chief Minister stressed the need to take farm mechanization to the Panchayat and household level so that it should be beneficial to the common man. On a request by The Institution of Engineers (India) for forming a separate Agricultural Engineering Department in the State. Hon'ble Chief Minister mentioned that action will be taken in that direction, provided, it will be useful to public and increase agriculture productivity.

Presiding over the function, Hon'ble Minister for Agriculture, Sri.K.P.Mohanam stressed the need for new technologies in agriculture.



*Hon'ble Minister for Agriculture
Shri. K.P. Mohanan delivers
the Presidential Address*



*Shri. K.C. Shashidhar, Chief
General Manager, NABARD
delivers the Keynote Address*

In his presidential address Hon'ble Agricultural Minister opined that Agricultural Mechanisation has played a key role in attracting the young generation to agriculture. He reminded that the outcome of this seminar should reach the right people. He also had the opinion that the service of agricultural engineers should be effectively utilized at Panchayat levels for enhancing agricultural productivity.

Sri.K.Muraleedharan, Hon'ble Member of Kerala Legislative Assembly inaugurated an exhibition on Agricultural Machinery and released a Souvenir-"Pravegam", brought out by Alumni Association of Kelappaji College of Agriculture Engineering and Technology, Tavanur, Malappuram.



*Shri K. Muraleedharan, Hon'ble MLA releasing the
Souvenir - "Pravegam" and inaugurating the Exhibition*

The Keynote address was given by Shri.K.C.Shashidhar, Chief General Manager, NABARD on the topic "Role of NABARD in Agricultural Engineering Sector". In his address he stressed the need for formation of a Co-ordination



Display of Agricultural Machinery

Committee by IEI so as to bring together NABARD, other apex banks and user organizations working in the field of agriculture. He advised to include credit availability allocation as one of the topic of discussion during a future seminar. He made it known that credit was always available for agriculture development and advised to use it for development of mechanization.

Dr.K.R.Viswambaran, IAS, Vice-Chancellor of KAU, Shri.G.Jayachandra, State Agriculture Engineer, Dept. of Agriculture, Govt. of Kerala, and Dr.M.Shivasami, Dean, Agricultural Engineering were the dignitaries who felicitated.

Later Hon'ble Chief Minister distributed tool kit to a gardner under the project 'An agricultural machine for every house'. Earlier, Er.S.Radhakrishnan, Chairman, Kerala State Centre welcomed the gathering and Er.K.S.Udayakumar,



*Hon'ble Chief Minister distributing tool kit to a gardner, Shri. Nesan.
(L-R) Shri. K. Muraleedharan, Hon'ble MLA, Shri. K.R. Viswambaran, IAS,
Vice- Chancellor KAU & Er. S.R. Vijayamohanakumar,
Council Member, IEI, Kolkata*

Member, AGDB elaborated the theme of the seminar. Er.J.Umasankar, Honorary Secretary, IEI KSC proposed the vote of thanks.

During the technical sessions following papers were presented and discussed.

1. "Relevance of Modern Agricultural Machinery in Kerala" by Dr.V.Ganesan, Special Officer, Kuttanad Package (Agri. Engg. Project), Rice Research Station, (Kerala Agricultural University), Moncompu, Alappuzha.

Mechanization in agriculture is intended to reduce drudgery, increase productivity and labour productivity, timeliness of operation and for the well being of the farmers. Agricultural mechanization embraces the use of tools, implements and machines for agricultural land development, crop production, harvesting, preparation for storage and on-farm processing. Agricultural mechanization should create a worker friendly environment especially for women workers by lessening hard labour, health hazards and improve safety in production operations. The benefits should apply to both small and marginal farmers and achieve a sustainable increase in yields and cropping intensity.

2. "Enhancing Agri Production Through Effective Soil and Water Conservation Measures" by Dr. Abdul Hakim V.M., Head,



Dr. V. Ganesan Dr. V.M. Abdul Hakim Dr. K.P. Sudheer

Department of Land and Water Resources Conservation Engineering, KCAET (Kerala Agricultural University), Tavanur.

Soil and water conservation consists of prevention and control of soil erosion caused due to various erosive agents. Soil conservation is a preservation technique, in which deterioration of soil and its losses are conserved by using it within its capabilities and applying conservation techniques for protection as well as improvement of soil. Soil and water conservation are integral components for environmental protection and cannot be treated as separate entities. Soil and water conservation should be made mandatory by Government. The choice of conservation measure is location specific and before arriving at a conclusion, the technical know-how of a competent person may be sought of.

3. "Innovations in Agricultural Processing" by Dr. K.P. Sudheer, Associate Professor, Dept. of PHT & AP, KCAET, Kerala Agricultural University, Tavanur.

The paper reviews briefly the present status and future trends of some new, emerging food preservation technologies. Most food-preservation techniques act by slowing down or completely inhibiting the growth of micro-organisms. Few techniques act by inactivating them. While heat remains the technique



Valedictory Function - Shri. Palode Ravi, Hon'ble MLA speaks. (L-R) Er. K.S. Udayakumar, Member AGDB, IEI, KSC, Er. S. Radhakrishnan, Chairman IEI, KSC, Er. J. Umasankar, Honorary Secretary IEI, KSC & Er. V. Vimal Prakash, Council Member IEI, Kolkata

most extensively used for inactivation, there has been increasing interest recently in the development of alternative approaches. They include the application of high hydrostatic pressure, high-voltage electric discharges, irradiation, use of microwaves, combination heating, light pulses, manothermosonication, and high-magnetic-field pulses. In addition, a number of naturally-occurring antimicrobials, biopreservatives are finding increasing use.

A Quiz competition led by Dr. K.P. Sudheer, Associate Professor, IIT, Chennai. was also arranged for the students of Engineering Colleges which was well attended

On display at the exhibition were tractors, harvesters, automatic paddy planters, irrigation equipment, paddy thresher, sprayers, coconut tree climber, etc.

The valedictory function was graced by Shri. Palode Ravi Hon'ble Member of Kerala State Legislative Assembly. Awards were presented to the best exhibits.

Major recommendations that emerged during the deliberations are

- Formation of a separate Agricultural Engineering Department in the State.
- Formation of a Co-ordination Committee of various agricultural agencies by IEI for implementation of agricultural machinery operation.
- IEI to monitor implementation of agricultural machinery operation.
- Research and Development in agricultural machinery to be encouraged.
- Use of credit available with NABARD and other apex banks for the development of agricultural machinery.
- Benefits of agricultural mechanization to be made known to farmers.

Co-sponsor of the Seminar

National Bank for Agriculture and Rural Development - NABARD



65th Independence Day Celebration



National Flag was hoisted at The Institution of Engineers (India), Kerala State Centre, Visvesvaraya Bhavan, Thiruvananthapuram

Kerala State Centre WEDNESDAY TALKS - Glimpses

03-08-2011 Talk on “Mind Mastery” by Dr.P.P.Vijayan, Secretary General, Life Line Foundation, Thiruvananthapuram.



10-08-2011 Technical talk on “Business Intelligence and Data Warehousing” by Mr. Shaju Cherian, Senior Project Manager, Infosys, Technopark, Thiruvananthapuram.



17-08-2011 Dr.D.Balakrishnan Memorial Lecture. Dr.P.R.Sreemahadevan Pillai, Principal, PA Aziz College of Engineering and Technology, Tvm delivered the Lecture on the topic “Technical Education in Kerala and Role of Technological University”.



24-08-2011 Technical talk on “Solar Control and Energy Efficiency in Buildings” by Er. Pratap Naick, Chief Technical Officer, ECO Products LLC, Royal Oak, Michigan, USA.



31-08-2011 Technical talk on “Innovation in Management” by Er.E.J.Francis, Retd. Scientist, VSSC, Thiruvananthapuram.



Think it Over

In critical moments, even the very powerful have need of the weakest

- Aesop

Educational

IEI Winter 2011 Examinations Section A and Section B

Section A (Diploma)	December 3-4, 2011
Section A (Non Diploma)	December 3-7, 2011
Section B	December 3-9, 2011

Last dates for submission of Examination application forms are given hereunder:

Candidates not appeared at Summer 2011 Examination August 16 – September 19, 2011

Candidates appeared at Summer Examination September 19 – October 21, 2011.

Announcement

The Institution of Engineers (India) Grant-in-aid Scheme for Projects of Engineering Students

IEI, Kerala State Centre requests Engineering Colleges to depute faculty members and selected final year graduate students, PG and PhD Scholars for the following projects.

- “Digital Manufacturing & Rapid Prototyping: Potential project ideas” - Dr. U. Chandrasekhar, Addl. Director, GTRE & Chairman R&D Committee.
- “Evolution of Indian Space Research Programs & Building Pico satellites” - Padmashri Prof. R.M Vasagam, Chairman, National Design & Research Forum.
- “Micro Air Vehicles-Projects on Control Systems & Electronics Systems”-Dr. Pavan K, IISc - Bangalore / IIT, Kanpur.

Those interested may be present at 2 pm on 15-09-2011 at The Institution of Engineers (India), Kerala State Centre, Visvesvaraya Bhavan, Opposite Kanakakunnu Palace, Thiruvananthapuram.

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