



Indian Society of Agricultural Engineers

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Dev Prakash Shastri Marg, Pusa Campus, New Delhi -110012
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A Professional non-profit organization established in 1960 aimed to promote and encourage the profession of Agricultural Engineering and to advance the standard of Agricultural Engineering in the areas of Research, Development and Education.

Electronic News Letter, Month – August, Year- 2012

Chief Editor: Dr. R. T. Patil, (ISAE F-172)

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Editor's Column

Dear All

I am feeling delighted in presenting one more issue of ISAE e-newsletter to you all. Due to my relocation from ICAR to private engineering education in core branches many expressed apprehension that I may not find time for our profession. Let me assure you all that I will not leave my duty towards the profession though I will speaking more about general engineering on the public forums. I am very proud to be an agricultural engineer and will do my job as e-news editor till I enjoy the pleasure of ISAE executives.

Awards and laurels keep our spirits high and give us motivation more than money. Our members Dr. S. N. Jha, got Rafi Ahmed Kidwai Award of Indian Council of Agricultural Research (ICAR), a team of Dr. N. J. Thakor, Er. A. A. Sawant, Er. S. C. Patil, Mr. S. B. Kalse bagged CIGR best paper award, Dr. Shinoj Subramannian received Jawaharlal Nehru Award for Doctoral Thesis and we all congratulate them on these successes.

The student community is a vibrant face of any profession; however they need to be involved in mainstream society activities. One such effort was done by Bhopal chapter in the past and now again this year they are planning this event under the leadership of Dr Chandra and Dr. Bargale at CIAE Bhopal during Jan 9-10, 2012 for under graduate students. The topics for competition are i) models/ displays of Ag. Engg. Activities, b) quiz on Agri. Engineering related topics and c) Elocution competition on emerging areas in agricultural engineering.

Tamil Nadu Chapter organized technical lecture meetings where Dr. Mallikarjunan from Virginia Polytechnic College and Dr. Balasubramanian from Ohio State University, USA delivered the lectures on new techniques in agricultural engineering. Mulching is gaining popularity now a day and hence Mulch Laying Machine and Punch Planter developed at CIAE Bhopal is a machine of the month.

The grass root level innovators contribute substantially to the pace of farm mechanization by developing appropriate implements. The Farmer Innovator of the month highlighted in this issue is Shri Prabhpal Singh who developed a Disc Bund Maker with Pressing Roller.

With best regards

R. T. Patil

Message from President

Dear Members

The climate change is reality and it's impacts on agriculture are visible. Changing rainfall pattern during last decade indicate that agriculture sector must aggressively work for development of resilience to climate change. United States of America is experiencing most severe drought condition this year. Several Indian states are also affected due to delayed monsoon and also excess rains in some parts. Global agriculture scenario is fast changing with uncertainties. Agriculture as whole including Field and Horticultural crops, Animal and Fishery sectors are experiencing stress conditions affecting productivity and production. Risk and uncertainties are almost certain and agriculture has already turned as highly unsustainable enterprise. Farmer's distress is increasing and statistics on suicides of farmers in India is an alarming signal.

Water for agriculture, Mechanization and Value addition of agriculture produce are key elements for making agriculture sustainable. These areas are predominantly dealt by Agricultural Engineers. Therefore, this is going to be decade of agricultural Engineering. Forbes magazine has already reported agricultural engineering profession as one of the top ten major disciplines for the class of 2022. Hence all other disciplines of agriculture will have to work in conjunction with agricultural Engineers in lead role.

Water and soil Engineering will have to play a key role in designing conservation, drainage, storage and recycling systems. Management of rain water for protective irrigation in rainfed areas, water management in irrigation command areas, Micro irrigation systems have to be addressed by trained Agricultural Engineers. Mechanization has come in to focus primarily as substitute to labor however gains in obtaining precision and timeliness will produce results. Promoting R&D in private sector with public sector in the role of facilitator, policy support to farm implement manufacturers, Network of local Institutions for development of skilled human resource & testing facilities are urgent needs of mechanization sector. Agro-processing for value added consumer products needs major boost. Network of Agro-commodity parks will play a greater role in boosting income of farmers. ISAE with its chapter network shall play a major role in focusing these professional issues in different forums and with state and central Governments.

Agricultural Engineers are still in short supply with present estimated demand, however if we work out demand considering new challenges arising due to climate change, the demand will be at least twice and many new Agricultural Engineering colleges will be needed with specialized degrees in three major areas of Water & Soil Engineering, Mechanization and Agro-Processing.

My dear agricultural Engineers let us join hands in strengthening the role of agricultural engineering in development of climate resilient sustainable agriculture.

(V. M. Mayande)
President

Member News

Dr. S. N. Jha bags Rafi Ahmed Kidwai Award 2011 of ICAR



Dr. S. N. Jha, Head of Agricultural Structures and Environmental Control Division of CIPHET, Ludhiana received the highest prize named Rafi Ahmed Kidwai Award of Indian Council of Agricultural Research (ICAR) for his pioneering research work on nondestructive methods of food quality evaluation and Post-harvest Technology and Management of makhana processing.. The award consists of a cash prize and citation and was given by honorable Union Minister of Agriculture and Food

Processing Industries, Shree Sharad Pawar ji, in presence of Union Minister of State for Agriculture & Parliamentary Affair Shri Harish Rawat ji, Union Minister of state for Agriculture and Food Processing Industries during the 84th foundation day celebration of ICAR on the 16th July 2012 in New Delhi. Dr. S. N. Jha has developed number of technologies such as computation of maturity index and prediction of eating quality of mango, freshness index and overall quality index of brinjal and apple, respectively besides improved evaporative cooled storage structure and transport freight containers for fruits and vegetables. He is also elected Fellow of National Academy of Science (NAAS), India, recipient of Young Scientist award of AFST (I), Reddy Award and Commendation medal of ISAE, Dr. J.C. Anand Gold Medal of Horticulture Society of India, JSPS Postdoctoral fellowship of Japan and elected fellow of Institution of Engineers (India).

Er. Kalbande visits Europe to Technical Feasibility of European Seed Processing Machinery for India



Mr. Vinod H. Kalbande Chief General Manager of Maharashtra State Seeds Corporation Limited, Akola visited seed processing machinery manufacturers and seed companies in European countries like Denmark, Sweden, and Germany during 26th July to 2nd August 2012> The visit was sponsored by M/S Agrosaw, Ambala, Haryana, India; M/S Damas, Faaberg, Denmark; M/S NoroGard, Skurup, Sweden and M/S PETKUS Technologie GmbH, Wutha, Germany. The purpose this visit was to discuss the modification required in the design of seed processing

machinery like seed cleaner and graders, gravity seperators, seed coating machines, seed dryers, Indented cylinders, and many more machines used in India in seed processing plants.

Mr. Kalbande presented difficulties faced while operations of various machines in Indian seed Industry and suggested suitable engineering design modifications for their improvement. The possibilities of joint efforts to find out suitable solution to such new challenges were also explored. He could see latest manufacturing technology used in production of seed processing machinery like humanless robot welding, lazer cutting and bending machines, CNC punching machines. These sophisticated machinery and technology can used in India by seed processing

machinery manufacturers like M/S Osaw Agro Industries, Ambala and others.



Dr. Gajendra Singh and CS Sahay attend CIGR meeting



European Society of Agricultural Engineers (EurAgEng), the International Commission of Agricultural and Biosystems Engineering (CIGR), and the Spanish Society of Agroingenieria (SEAgIng), organized this International Conference of Agricultural Engineering CIGR-AgEng2012 in Valencia, Spain on July 8-12, 2012. EurAgEng and CIGR celebrated this joint International Conference on Agricultural Engineering in 2012. In addition, a Special Parallel

Conference on mechanization and post-harvest technology in developing countries was organized by UNIDO and FAO as part of the Congress. The Conference covered emerging research and new engineering solutions for food production and rural activities, as a means to enhance human well-being and promote social benefits. New concerns included methods of agricultural, livestock and forestry production, and the preservation of natural resources and landscape by applying modern engineering concepts.



Dr. Gajendra Singh also represented ISAE for claim on hosting next CIGR world congress in 2018 in India. This conference has been given to Turkey but ISAE could be flagged on international scene due to this effort.

KKV Dapoli team of engineer's bag CIGR best paper award



The awarded research paper was on grain storage based on the work conducted at Dr. Balasaheb Sawant Konkan Krishi Vidyapeeth, Dapoli (MS, India). The team was led by Dr. N. J. Thakor, Head Department of Agricultural Process Engineering. The title of the paper was *Effect of temperature, relative humidity and moisture content on germination percentage of wheat stored in different storage Structures*-by A. A. Sawant, S. C. Patil, S. B. Kalse, N. J.

Thakor. CIGR is an international, non-governmental, non-profit organization providing a networking system for regional and national societies of agricultural engineering as well as private and public companies and individuals all over the world. The CIGR Journal publishes papers in Land and Water Engineering (LWE), Farm Buildings Construction (FBC), Equipment Engineering for Plant Production (EPPP), Energy in Agriculture (EA), Management, Ergonomics and Systems Engineering (MESE), Post-harvest Technology and Process Engineering (PTPE) and Information Systems (IS). Dr. Gajendra Singh, Ex-President ISAE received this award on behalf of Indian delegation.

Dr. Shinoj Subramannian receives Jawaharlal Nehru Award for Doctoral Thesis



Dr. Shinoj LM ISAE was presented this Award for his outstanding research in the field of agricultural engineering. His doctoral thesis work is on “Development and Characterization of Oil Palm Fibre - Linear Low Density Polyethylene (LLDPE) Biocomposites”, at the Department of Food and Agricultural Process Engineering), Tamil Nadu Agricultural University (TNAU). Through this study he has developed Oil Palm Fibre filled Linear Low Density Polyethylene (LLDPE) Biocomposites and evaluated its physical, mechanical, electrical, optical, thermal,

degradation and rheological properties. This biocomposite is a substitute for plastics and can help reduce plastics consumption. Utilization of oil palm fibre helps easy disposal and would also be remunerative to the oil palm industry. The Scholar conducted part of his study at the

Dept. of Agricultural and Bioresource Engineering, University of Saskatchewan, Canada under the Commonwealth Student Exchange Programme Fellowship of Canadian Bureau of International Education. Currently, Dr. Shinoj is working as Programme Coordinator of Krishi Vigyan Kendra (ICAR) situated at Narakkal, Ernakulam District, Kerala. This Scholar worked under the guidance of Dr. R. Viswanathan, Professor and Head, Department of Food and Agricultural Process Engineering, TNAU.

Dr. Patil Joins as Director Technocrat Institute of Technology, Bhopal



Dr. Patil Vice President ISAE, Chief Editor, E-newsletter and former Director of CIPHET, Ludhiana, Punjab has joined as Director of Technocrat Institute of Technology, Bhopal. An eminent engineer awardee of Institution of Engineers and fellow of many national Academies and Institutions, Dr. Patil has gold medal for his B. Tech and Best thesis award from CSAE, Canada for his PhD work. An alumnus of Indian Institute of Technology, Kharagpur Dr. Patil has published more than 200 papers, developed 23 prototypes and contributed to 1 US and 7 Indian patents and supervised many post graduate students. He has spent about 10 years in USA, Canada and travelled to Turkey, Serbia, Netherland, Germany, Afghanistan, Malaysia for giving keynote presentations in international conferences. After illustrious career of 33 years in ICAR (GOI) in research and development in bio process engineering Dr. Patil has now moved to education sector with an aim to inculcate the creative and innovative approach in engineering education.

Chapter News

Bhopal Chapter to organize ISAE National Student Competition – 2013

The Bhopal chapter of ISAE is going to organize national Student Competition during Jan 9-10, 2013 as given below

Organiser	:	ISAE – Bhopal Chapter and CIAE, Bhopal
Venue	:	CIAE, Bhopal
Competition dates	:	Two days - January 10-11, 2013
Eligibility for participants	:	Students of B. Tech. / B.E. (Ag. Engg./ Food Engg.)
Events*	:	Team competitions for: <ul style="list-style-type: none"> • Best models/ displays of Ag. Engg. Activities • Quiz on Agri. Engineering related topics • Elocution competition on emerging areas in agril engg.
Student Sponsorship	:	Respective Institutes/ Colleges. No TA/DA support by ISAE or CIAE. However, Director CIAE (patron of the chapter) may provide accommodation in CIAE guesthouse/ hostels at concessional rates.

Selection of student teams	: Deans/ Principals of Agricultural Engineering Colleges/ Institutes will select a team to 4 students to represent their institution.
Team constitution	: Four students One faculty or staff member of the respective institution (optional).

For further details please contact

Dr PC Bargale, Chairman, ISAE – Bhopal Chapter & Principal Scientist, APPD Central Institute of Agril. Engineering, Nabibagh, Bhopal – 462 038 (MP)	Dr KVR Rao, General Secretary, ISAE – Bhopal Chapter & Senior Scientist, IDED Central Institute of Agril. Engineering, Nabi Bagh, Bhopal – 462 038 (MP)
Email: <pcbargale@yahoo.co.in> <pcbargale@ciae.res.in> Ph. 0755-2521068 Mobile: 0989333-7808, Fax: 0755-2730-987	Email: <kvramanarao@yahoo.com> <kvrr@ciae.res.in> Ph. 0755-252-1159, Mobile: 094250-23739 Fax. 0755-2734016

Tamil Nadu Chapter organized Technical Lecture Meetings



Lecture meetings were organised by Tamil Nadu chapter at Agricultural Engineering College and Research Institute, Tamil Nadu Agricultural University, Coimbatore on 14.05.2012 and 09.07.2012. Dr.Mallikarjunan Parameshwarakumar, Associate Professor, Virginia Polytechnic College, USA, delivered a talk on “Opportunities for Research Collaboration and Higher Studies” on 14.05.2012 and Dr.V.M. Balasubramanian, Professor (Food Engineering), Ohio State University, Columbus, USA on 09.07.2012; 4.00 P.M “Non Thermal Food

Processing” to the members, faculty and students of Agricultural Engineering College and Research Institute, Coimbatore.

Dr. Mallikarjunan, highlighted the current research activities at Virginia Polytechnic College in the area of food processing and about the graduate programme. He also highlighted on possibilities of collaborative programmes between the institutions.

Dr.Balasubramanian, covered the various non thermal processes and their scope. The talks were informative to the members and students. These meetings were attended by about 30 members. The members serving at Tamil Nadu Agricultural University, Agricultural Engineering Department, Govt. of Tamil Nadu, Coimbatore Region and Central Institute of Agricultural Engineering (ICAR), Regional Centre,



Coimbatore attended the meeting. Dr.S.Santhana Bosu, Dean, Agricultural Engineering College and Research Institute and President – Tamil Nadu chapter, Dr.R.Viswanathan, Secretary and Dr.B.Sridhar, Treasurer of the local chapter organised the meeting.



Farm Machine for the Month

Mulch Laying Machine and Punch Planter



A plastic mulch laying machine for positive release of film was developed to lay the plastic film on broad beds and have the soil edges of the film buried in soil from both sides. The unit was tested for planting French bean at CIAE, Bhopal

on raised beds. The refinements led to over 50% increase in field capacity of the two machines. A tractor operated 4-row punch planter consisting of modular planting units has been developed to plant seeds on raised beds in plastic mulched condition. The benefit cost ratio of 1.91 in case of groundnut and 2.12 in case of French bean was obtained under plastic mulched condition apart from 30% saving of irrigation water. The field capacity of the machine is 0.20-0.25 ha/ h and the cost of operation is Rs. 2400/ ha for mulch laying (without cost of mulch).

Farmer Innovator

Shri Prabhpal Singh



A farmer from VPO Kasel, Block Gandiwind, District Tarantaran, Punjab developed a **Disc Bund Maker with Pressing Roller**. The Disc Bund Maker with pressing roller consists of two disc of 67 cms diameter. Each disc is connected with vertical shafts and it sets angle of disc, hence deciding width of bunds. These two disc are joined to horizontal bar which connects both the discs with each other. There is provision of putting weight on each disc by providing a carrier on top of each disc. A pressing roller attached with disc with a spring presses the bunds made by disc and give proper shape to the bunds. It comprises of two heavy disc of 63 cm diameter each and attached to a drum of 20 cm length. The pressure of moving roller is controlled by a screw attached on horizontal bar. It

can be linked to any type of tractor. With the pressure and weight of pressing roller, bunds become compact. It is easily adaptable in fields.



(Source: Farm Innovators–2010, ICAR, New Delhi)

Announcements

INDIAN SOCIETY OF AGRICULTURAL ENGINEERS NOTIFICATION FOR ISAE AWARDS

Last Date for Nominations/Applications: 30th September 2012

ISAE invites nominations for the following AWARDS to recognize the outstanding contributions of its Members in the field of Agricultural Engineering and also in the fulfilment of the ISAE's objectives. Only those candidates will be considered who are either Life Members or Corporate Members or Student member as applicable to the concerned award by the last date of submitting the applications.

1. Mason Vaugh Agricultural Engineering Pioneer Award – Awarded to any person who has made pioneering contributions to:

- the formulation of the policy/strategy which had unique influence on the development of agricultural engineering programs in India,
- the development of agricultural engineering institutions in India,
- agricultural engineering research,
- agricultural engineering education,
- agricultural engineering program management at the national level,
- generation of agricultural engineering technology,
- supply of agricultural engineering technology.

This award will be the highest recognition by the Society and will be given rarely. Membership of I.S.A.E is desirable but not an essential requirement if the award is given posthumously.

Nominations/ suggestions for this award from persons having a minimum of 20 years of experience are required to be sent directly to the President ISAE.

2. ISAE GOLD MEDAL FOR LIFE TIME ACHIEVEMENTS – Awarded to any life member having at least 25 years of professional experience for his/her outstanding contribution in one or more areas of Agricultural Engineering as listed under Mason Vaugh Pioneer Award.

3. FELLOW – Awarded to any Life Member having 25 years of professional experience who has made significant contributions in the field of Agricultural Engineering.

4. COMMENDATION MEDAL FOR PROFESSIONAL ACHIEVEMENTS

Awarded to any Life Member with 15 years of professional experience who has made outstanding contributions in any of the following fields:

Teaching, Research, Development, Extension, Industrial Promotion, Service to the Profession, Distinguished Manufacturer of Agricultural Equipment, Service rendered in the Difficult Areas, and for Information Technology in Agriculture.

In case of Distinguished Manufacturer of Agricultural Equipment Award, the manufacturing firm must be a corporate member.

5. Dr. K.N. NAG AWARD – Awarded to any life member having at least 10 years of professional experience for his/her outstanding contribution for the promotion of Agricultural Engineering profession.

6. DISTINGUISHED SERVICE CERTIFICATE – Merit Certificates in the similar fields as mentioned in (4) above are awarded to the Life Members having professional experience of at least 10 years. **Women professionals will be adjudged in a separate category.**

7. SPECIAL MEDAL – For individual Life members enrolling more than 50 new members during July 2010 to the last date of submitting the applications.

8. TEAM AWARD – To be awarded to those Engineers/Scientists who have worked on projects related to research/extension/application of engineering in the field as a team for at least 3 years, continuously. Team members must be Life members, if eligible.

9. OUTSTANDING BOOK AWARD – To be awarded to author(s) for good quality books in any area of Agricultural Engineering. First edition of the book published and in circulation prior to 2009 will only be considered. Authors must be Life members, if eligible.

10. STUDENT PAPER AWARDS – To be awarded to any Under-Graduate or Post-Graduate student who is a Member of ISAE, and his/her paper is judged as the best paper based on the content, quality and presentation, by a panel of jury. Only the papers presented during the forthcoming 46th Convention of ISAE being held in February, 2012 will be considered for this

Award. The papers should preferably be by an individual student. The length of an Under-Graduate Student Paper shall not exceed 2000 words and that of Post-Graduate Student 3000 words. Best UG/PG student selected for this award will be awarded a cash prize of Rs. 5000/- by ISAE. In case of UG students, the concerned chapters should sponsor UG students to cover at least travel and registration costs, for presenting papers in the convention.

11. JAIN IRRIGATION AWARD – To be awarded to the Members for the (a) best student paper and (b) best professional paper presented in the area of drip irrigation during each Annual Convention. The papers should preferably not exceed 3000 words and should be from an individual.

12. BEST CHAPTER AWARD – To be awarded to the best ISAE Chapter based on their overall performance in terms of professional activities and enrolling new Members during the year July 2010 to the last date of submitting the applications.

GENERAL CRITERIA AND INSTRUCTION FOR AWARDS

Awards will be made only if, in the opinion of the Awards Committee, the recognition is due.

Awards will be given to only Life members/Corporate members/Student members as applicable to the concerned award.

In deserving cases, when the Committee so decides, under the same category, more than one award can be given.

The decision of the Committee is final and no appeal will be entertained.

Nomination(s) for Awards at Serial No. 1, 2 and 3, by members of at least 20 years of professional experience are to be sent to the President at: ymmayer@yahoo.com to reach him on or before September 30, 2012. The decision of the President in these awards will be final. For Serial No.2 (ISAE Gold Medal) and Serial No.3 (Fellow) please use the prescribed **Proforma-1** for nomination.

Applications for awards at serial numbers 4 to 11 should be sent through proper channel (to be forwarded by the Head of Institution/Organisation/Department).

For award at Serial No. 8, the team work should be reflected by published literature and a certificate from the Head of the Department/Institution.

Nominations for award at Serial No. 12 shall be sent by the Chairman of the ISAE Chapters with full report and audited account for 2011-2012. Similarly, the application for Award at Serial No. 7 should have the forwarding remarks of the concerned ISAE Chapter.

For Award at Serial No. 9, the book should be related to any area of the Agricultural Engineering. This should be in the printed form and should be written in English or in Hindi only. A copy of the Book along with Application should be sent by registered post to the ISAE Head Quarters.

For awards at 10 and 11, the Vice-President (Technical) in consultation with the respective Technical Directors will recommend the name(s) for these awards, based on the quality of papers presented in the technical sessions, during the 46th Annual Convention.

For awards at Serial No. 10 and 11 abstract for the paper shall be sent to Director Awards by 31st January 2012. Full text of the paper should be brought for the presentation during the 46th Annual convention. The Award shall be subject to minimum number of 5 participants. The Director (Awards) may, however, relax this condition depending upon the quality of the papers received.

Documentary evidence(s) should be attached wherever applicable.

The nominations/applications for awards (for all awards after Sr no.3) in the prescribed proforma should be sent by email to Dr. Anil Kumar, Secretary General ISAE at anil_k_99@gmail.com to reach him on or before September 30, 2012.

Nominations/Applications received later than September 30, 2012 will not be entertained.

Note: For further details and proforma for application please visit www.isae.in

Upcoming Events

All India Seminar on “Engineering Interventions for Profitable Agriculture” at Coimbatore

An All India Seminar on Engineering Interventions for Profitable Agriculture is being organised during 11-12 September 2012 at Agricultural Engineering College and Research Institute, Tamil Nadu Agricultural University, Coimbatore under the Agricultural Engineering Division Board of The Institution of Engineers (India), Tamil Nadu State Centre, & Coimbatore Local Centre.

The proposed seminar will bring the researchers, scholars, extension officials, industries, policy makers, etc., together to discuss the strategies for making the agriculture profitable through various engineering inventions. The themes covered during the seminar are,

- Farm Mechanisation
- Precision farming
- Water harvesting and water management
- Soil conservation and management
- Bioenergy
- Environment and pollution
- Food processing and value addition
- Applications of biotechnology and nano technology

- Food safety and quality management in food industries

The two days seminar will cover the key note address, invited talks by personnel from industries/ academicians, presentations of technical papers, posters, models and exhibitions. Faculty, research scholars, post graduate and undergraduate students of State Agricultural Universities, colleges interested in the field of agricultural engineering and allied branches of sciences, and personnel from related industries can participate in the seminar. The participants are invited to present papers/ posters/models.

The participants will pay the registration charges as detailed below:

- Faculty / researchers (IEI Members) - Rs.750
- Faculty / researchers (Non Members) - Rs.1000
- Students - Rs.500

Payment can be made through demand draft in favour of The Institution of Engineers (India), Coimbatore Local Centre payable at Coimbatore (Account No.: 10141435551; IFS code: SBIN0007231) .

Abstracts not exceeding 500 words will be prepared (with 12 Times New Roman and justified) and the soft copy may be sent by email attachment to ieicalorie2012@gmail.com before 15 August 2012. The hard copy along with the filled in registration form and registration charges may be sent to the following address.

Dr.S.Santhana Bosu

Convener

and Dean, Agrl. Engg. College and Res. Institute,

Tamil Nadu Agrl. University, Coimbatore – 641 003.

Email: deancaecbe@tnau.ac.in; Phone: 0422 – 6611255/ 6611253/ 6611272.

The XVIII CIGR World Congress 2014

The XVIII World Congress of International Commission of Agricultural and biosystems Engineering (CIGR) will be held in Beijing, China from 16-19 Sept 2014. The theme of this conference is Agricultural and Biosystems Engineering In Upgrading Our Quality of Life. The detailed instructions will be given when second announcement will be out.

The IV CIGR International Conference-Ag Eng Conference-2016

This conference will be held at University of Aarhus during June 26-29 2016 as joint event between CIGR and EurAgEng (European Society of Agricultural engineering) and co-sponsored by NJF (Nordic Association of Agricultural Scientists) and Aarhus University. The contact Person is Prof. Soren Pederson and email is soeren.Pedersen@agrsci.dk

CIGR Section IV 34th International Conference

This conference will be held at Agricultural University in Krakow, Poland. The main topics discussed will be Biomass, Biogas and Water and Wind Energy. Contact Person is Prof. Janusz Piechocki, Chair CIGR Section IV

New Life Members

JUNE, 2012			
LM – 10788	Er Ajay Kumar Mahra	Madhubani	Bihar
LM – 10789	Er Shagufta Akbari	Guntur	Andhra Pradesh
LM – 10790	Mr Gunjan Kumar	Nalanda	Bihar
LM – 10791	Er Anuj Yadav	Ghaziabad	Uttar Pradesh
LM – 10792	Er Narinder Kumar Gupta	Jammu Tawi	Jammu & Kashmir
LM – 10793	Er Sushmita Mukherjee Dadhich	Jammu	Jammu & Kashmir
LM – 10794	Dr Manoj Kumar	Jammu	Jammu & Kashmir
LM – 10795	Er Sunny Raina	Jammu	Jammu & Kashmir
JULY, 2012			
LM – 10796	Er. Yogender singh	Mahender Garh	Harayana
LM – 10797	Dr. Dhiraj Khakhho	Krishi Nagar	Raipur
LM – 10798	Er. Parmod Kumar Mishra	Allahabad	Uttar Pradesh
LM – 10799	Er. Deepika Goswami	Ludhiana	Punjab
LM – 10800	Dr. Monika Sharma	Ludhiana	Punjab
LM – 10801	Er. H.G Ramya	Somwarpet coorg	Karnataka
LM – 10802	Dr. Umezuruike Linus Opara	Stellenbosch	South Africa
LM – 10803	Dr. Folasayo Titilola Fayose	Ondo State	Nigeria
LM – 10804	Er. Chetan Singla	PAU	Ludhiana
AUGUST, 2012			
LM - 10805	Er Sasmita Sahoo	Kharagpur	West Bengal
LM - 10806	Dr. R Mahendiran	Coimbatore	Tamil Nadu
LM - 10807	Dr. Angeeswaran	Coimbatore	Tamil Nadu

For further details contact:

Secretary General: **Prof Anil Kumar** (anil_k_99@yahoo.com) and/or

Secretary: **Dr J P Sinha** (jpsinha@gmail.com)

INDIAN SOCIETY OF AGRICULTURAL ENGINEERS

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