



Indian Society of Agricultural Engineers
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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 Newsletter, January to March, Year- 2018

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

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From the Editor's Desk

Dear Members

I am glad to present to you the first issue of 2018. Nowadays everyone is talking about role and importance of water in increasing farmer's income and hence its conservation is being given lot of attention. In Maharashtra there is Satyamev Jayate water cup competitions of Pani Foundation where 4000 villages from 75 talukas are participating.

Paani Foundation's (an initiative by Amir Khan a film actor) work in the field of water conservation and watershed management has indeed been a major contributing factor towards water conservation in Maharashtra. Paani Foundation demonstrates a unique symbiosis between people from Bollywood & Corporate World. It's just not an initiative but a people's movement which clearly shows that water conservation can be done without building huge dams. For transformation people's participation is the key and driving force and that's what Paani Foundation has managed to do through Satyamev Jayate Water Cup. It is a competition between different villages to see who can do the best work for watershed management and water conservation in the period of the competition. As part of the competition, Paani Foundation trains the villagers in the science of

watershed development. These villagers then participate in the Satyamev Jayate Water Cup. The 45-day long competition involves 'Shramdan,' (voluntary labour) in building important structures and thus, water storage capacities. Every revenue village in the selected talukas is eligible to participate. This year the competition tenure for Satyamev Jayate Water Cup is from 8th April to 22nd May 2018. The top three villages will get a cash prize of Rs. 75 lakhs, Rs. 50 lakhs and Rs. 40 lakhs respectively. In addition, the top village from each taluka will get a cash prize of Rs. 10 lakhs. The total prize money which the villages stand to win in the competition is nearly Rs. 10 crores.

If such efforts are replicated sincerely and with same enthusiasm in other states, the drought and water scarcity in the country will be thing of the past.

The American Society of Agricultural and Biological Engineers, in collaboration with the Indian Society of Agricultural Engineers is also organizing "Global Water Security Conference for Agriculture and Natural Resources" to bring together farmers, researchers, practitioners, entrepreneurs, and policy makers on a common platform to discuss current and future water security problems, share research, and discuss creative solutions that can be applicable at various scales in different regions. This conference will held during Oct 3-6, 2018 at Taj Krishna Hotel in Hyderabad, India.

I also take this opportunity to congratulate all the awardees who received the awards for their contribution to the profession and also welcome and congratulate new executive of 2018-21 and wish them very best to take our society and profession to new heights.

Through this message I wish to appeal to our newly elected technical Directors to be in constant touch with chapters and members and extract information on the novel technologies developed by them for highlighting in the newsletter. This will help tech directors to interact with members throughout the year and not only during ISAE convention.

With best regards

(R. T. Patil)
Chief Editor

Message From President

Greetings to all the members of the Indian Society of Agricultural Engineers.

The ability of the machine or computer program to think & learn, and based on that, take decision and predict the outcome of a situation forms to what is known as Artificial Intelligence (AI). The AI is the category of technologies and tools designed to allow computer systems to imitate human intelligence. It is the integration of tools like Speech Recognition, Language Generation, Virtual Agents, Machine Learning and Deep Learning. Now imagine if this same concept of AI was implemented in Agriculture to determine the date of sowing, pest attack and price forecasts, the crop production would increase to a significant extent.

Indian agriculture has been traditionally rain dependent and climate change has made farmers extremely vulnerable to crop loss. Insights from AI through the agriculture life cycle will help reduce uncertainty and risk in agriculture operations. Use of AI in agriculture can potentially transform the lives of millions of farmers in India and world over.

The use of robotics for surveillance, ground bots (or smart tractors) for removing weeds, harvesting of crops, fertilizing and irrigation, crop seeding, and nursery planting marks the beginning of precision agriculture. Here, hardware might not be a limitation, but the application of cutting-edge technology to get the optimum output with minimal requirements is.

It is high time for the Agricultural Engineers to pay attention on the above issues and take up the work, initiate and concentrate on the research work related to above area to benefit the Indian agriculture, especially the precision agriculture. I am sure, some of the leading institutions will develop the suitable indigenous technology in this regard.

As a President, this is my last message for the Newsletter. Hence, I would like to thank all the EC members of ISAE who worked along with me as a team and help contribute taking the ISAE a higher level. I have handed over the charge of the post of the President to Dr. Indra Mani Mishra, Head, Division of Agricultural Engineering, IARI, New Delhi w.e.f. 31st March, 2018 after office hours. I am sure Dr. Indra Mani Mishra and his team of EC members will add few more feathers in

the cap of ISAE. Also, I take this opportunity to congratulate and extend my best wishes to the newly elected EC members of ISAE for 2018-21.

The 52nd Annual Convention of ISAE held at Anand during January 8-10, 2018 was a grand success. I congratulate all the recipients of different awards of ISAE. I compliment the team of ISAE, Anand Chapter especially Dr.D.C.Joshi, Dr.R.K.Jain, Dr.R.Subbaiah and other members for successfully organizing the event. It is a memorable one in the history of ISAE. Further, I am told that the ISAE, Anand Chapter will give contribution of more than `1.0 million to ISAE which might a record contribution provided by any chapter after organizing the Annual Convention of ISAE. I am sure, all of you will be very glad to know this and appreciate it.

Lastly, I am thankful to all the members of ISAE for extending the support, thereby, helping me to provide my services effectively as the President of this esteemed society. I appreciate the keen interest taken by Dr.Gajendra Singh, Patron of ISAE, Dr.V.M.Mayande, Ex-President, Dr. K.Alagusundaram, DDG (Engg.), Dr. N.S. Rathore, DDG (Agri. Edu.), Dr. S.N. Jha, ADG (PE) and other members from ICAR for helping the ISAE. Dr. De and the team for JAE & AET deserve compliments for their untiring efforts for the publications. I appreciate the services rendered by Er.B.N.Arya to the office of ISAE Head Quarter, New Delhi. I extend my special thanks to Dr. R.T. Patil for accepting the work of publishing the e-Newsletter and rendering his services regularly.

I am proud of our society and I wish it a very bright future.
Jai Hind.

March 31, 2018.

N. C Patel
President, ISAE

Obituary

Er. S R Singh (10-03-1943 to 06-04-2018)



Educated at Allahabad Agriculture Institute, Allahabad as Agriculture Engineer joined department of Agriculture, Govt. of Madhya Pradesh in 1963 as Assistant Agriculture Engineer. He held different positions in different institutions, the most important as Managing Director, Land Development Corporation, MP and as Director, Agriculture Engineering. He was founder Director of Directorate of Agriculture Engineering, Madhya Pradesh. Our prayers are with his family. May his soul rest in peace.

In reverence & remembrance
ISAE -Bhopal chapter
&
Directorate of Agriculture Engineering, Madhya Pradesh
And
All members of Indian Society of Agricultural Engineers

Introducing Industry Members

Shri. Sharad L. Patel



Mr. Patel was born on November 25, 1933, obtained Bachelor's degree in Mechanical Engineering from the Gujarat University in 1956 and Master's degree from the University of Michigan, U.S.A. in 1958. He joined American Spring and Pressing Works Pvt Ltd, in the beginning as Production Engineer and then reached to the present stage of

Managing Director. He is also the Director of Aspee Agro Equipment Pvt. Ltd., Bilimora, Gujarat State and Aspee Agricultural Research and Development Foundation, Mumbai. He is a member of Plant Protection Equipment Sectional Committee of Indian Standard Institution and Scientific Panel for Agricultural Engineering of Indian Council of Agricultural Research, Delhi.

He was invited by the Malaysian Agricultural Research & Development Institute (MARDI) and the Malaysian Plant Protection Society (MAPPS), Israeli Government, International Rice Research Institute, Manila, International Institute of Tropical Agriculture, Ibadan, Nigeria and Food and Agriculture Organization of the United Nations, Rome, for workshops and to impart trainings. He has been awarded with commendation in 1984-85 for Outstanding Contribution in Industrial Promotion Activities of Agricultural Engineering and ISAE Gold Medal for the year 2004-05 by Indian Society of Agricultural Engineers. He is Trustee in “ASPEE Charitable Trust” and Founder Member Charter President of Rotary Club of Bombay North-West, Trustee of Bombay North-West Rotary Public Charitable Trust, Mumbai, Sanskar Sarjan Education Society, Mumbai, Shree Manubhai Pancholi (Darshak) Foundation, Gandhighar Kachholi, Amalsad, Gujarat, Sardar Vallabhbhai Patel Education Society, Bardoli, Sanskar Sarjan Education Trust, Bilimora, Academic Council Member of Navsari Agricultural University and Junagadh Agricultural University as well as trustee of several of Educational Trusts and Public Health Charitable Trusts. In recognition of his contributions to the profession, the ISAE conferred the **Mason Vaugh Agricultural Engineering Pioneer Award-2017** to him.

Er. D. S. Balachandra Babu, LM-2762



Mr. D. S. Balachandra Babu started M/s. Farm Implements (India) Pvt. Ltd. with a motto of helping the farming community to increase the farm productivity and to enhance the life style of the farming community. Though he is a Chemistry graduate, took up a challenge to run an Engineering industry and started in a small way, the Farm Implements (India) Pvt. Ltd. after studying the needs of the Indian farmers. He is in business since 1984 and very eager to develop the farm mechanization. He has started the program right from the beginning of present generation plough – Rotary Tiller “ROTAVATOR” and has introduced many new concepts of mechanization to the needs of Indian farming community. He has introduced

Sugarcane Harvesters suitable for Indian conditions (small holdings) and also introduced Tea Harvester. He is consultant to various agricultural projects and closely associated with Sugarcane Development Projects, Tea Research Institute and other Institutes. He has visited most of the farm machinery manufacturers in Europe, United Kingdom, United States of American, Australia, Thailand, Korea and Japan. He is a member of “Indian Society of Agricultural Engineering”, “American Society of Agricultural and Biological Engineers”, “Club of Bologna” “Asian Society of Agricultural Engineering”, “Madras Management Association”, “Federation of Indian Chamber of Commerce & Industry”, “Confederation of Indian Industries”, “Agricultural Machinery Manufacturer’s Association” etc. At present he is President of Agricultural Machinery Manufacturers’ Association (AMMA-India). Contacts: Email: balachandra.babu@gmail.com Mob: +91 98400 62049

List of ISAE Awardees (2017)

1) ISAE MASON VAUGH AGRICULTURAL ENGINEERING PIONEER AWARD			
1	Prof. M M Mehta (F - 24) LM - 198		1179, Sector-15, Faridabad – 121 007 (Haryana) Email: m.mehta7333@gmail.com mmehta@omp-group.com Mob: +91 9971 463 944
2	Shri. Sharad Patel		Director, ASPEE Agril. R & D ASPEE, Mumbai
2) ISAE GOLD MEDAL			
1	Dr. T B S Rajput (F – 150) LM - 4425		Emeritus Scientist Water Technology Centre IARI New Delhi – 110012 Email:- tbsraj@yahoo.com / tbsraj@iari.res.in Mob:- 9810673101
3) ISAE FELLOW			
1	Dr. Mahendra Prasad Tripathi (LM-477)	F - 244	Professor and Head B-01, Vishal Nagar, Raipur - 492 006. (Chhattisgarh) Email:- mktripathi64@gmail.com Mob:- 9826128564
2	Dr. Shyam Sunder Kapdi (LM -7776)	F - 245	Professor & Head, Bio-Energy Department College of Food Processing Technology & Bio-Energy AAU, Anand - 388 110 Gujarat Tel. No. (02692) 261302 ext.21 E-mail: ss_kapdi@rediffmail.com Mob:- 878828768
3	Dr. Raj Vir Singh (LM - 2497)	F - 246	Director, 59, Yashoda Kunj, Mawana Road, Meerut – 250 001 (Uttar Pradesh) Email:- rajvir26@rediffmail.com Mob:- 9760801955
4	Dr. Harminder Singh Sidhu	F - 247	International Research Scientist (IRS) working as Senior research Engineer Deptt. of Farm Power & Machinery,

	(LM -7878)		Borlaug Institute for South Asia (BISA), Ludhiana - 141 008 (Punjab) Email:- h.shidhu@cgiar.org Mob:- 9815077311
5	Dr. Narendra Kumar Gontia (LM-5411)	F - 248	Principal and Dean, Faculty of Agricultural Engineering and Technology JAU Junagadh - 362 001 (Gujarat) Email:- nkgontia@yahoo.com Mob:- 9429158709
6	Dr. Rabindra Kumar Panda (LM-4453)	F - 249	Professor & Head Flat No. 102, V1 Block, Faculty Quarters, IIT Bhubaneswar, Argul, Jatni, Khurda - 752 050 (Odisha) Email: rkpanda56@gmail.com Mob:- 7894435400
7	Dr. Anoop Kumar Dixit (LM-7894)	F - 250	Senior Research Engineer Department of Farm Machinery and Power Engineering, Punjab Agricultural University, Ludhiana - 141 004 (Punjab) Email: anoopdixit@pau.edu Ph: 0161-2430760, 9417670888
8	Dr. Kaluvai Yella Reddy (LM - 9511)	F - 251	Director Water and Land Management Training and Research Institute (WALAMTAR), Rajendranagar, Hyderabad - 500 030 E-mail: yellark@gmail.com Ph.: 40-24006205 (M) 8374449555
9	Dr. Ch V V Satyanarayana (LM - 9522)	F - 252	Professor and University Head, Dept. of Food Engineering, College of Food Science & Technology Acharya N.G. Ranga Agril. Unveristy, Bapatla- 522 101 (Andhra Pradesh) Email:- drchvv@gmail.com Mob:- 9949976727
10	Er. Shyam Sunder Kohli (LM-10520)	F - 253	Scientist G & Advisor, Deptt. of Science & Tech Science and Engineering Research Board (SERB) Department of Science & Technology (Ministry of Science & Tech, Gol) 5 & 5A LGF, Vasant Square Mall, Sector-B, Pocket-5 Vasant Kunj, New Delhi - 110 070 Tel:- 011- 26590499 (M) 8130597008 Email: sskohli@nic.in
11	Dr. Satya Priya (LM - 11369)	F - 254	Sr. Water Resources Management Specialist Flat No. #75, Doctors Apartments Vasundhra Enclave, (Near Dhramshila Cancer Hospital) Delhi - 110 096 Email:- spriya1@worldbank.org satya_priya@hotmail.com Mob:- 9810126827, 9958476931
4) HONORARY FELLOW			
1	Prof. K P Singh		Vice-Chancellor,

		HAU, Hisar, Haryana
2	Shri. Sanjay Prasad, IAS	Principal Secretary, Agriculture Cooperation & Farmers Welfare Gujarat
3	Dr. Rupinder Singh Sodhi	Managing Director, Gujarat Cooperative Milk Marketing Federation (AMUL)
4	Ms. Mallika Srinivasan	CEO, TAFE
5) COMMENDATION MEDAL		
1	Dr. T Senthilkumar (LM - 7818)	Senior Scientist (FMP) ICAR Central Institute of Agricultural Engineering Regional Centre, Veerakeralam Road SBI Post, Coimbatore – 641 007 (Tamil Nadu) Email: thasekumar@gmail.com Mob: +91 9842 955 606 Tel:- 0422- 2472624
2	Dr. Mohammed Shafiq Alam (LM-9341)	Senior Research, Engineering, Dept of Processing & Food Engineering., Punjab Agricultural. University, Ludhiana – 141 004 (Punjab) Email:- ms_alam@rediffmail.com Mob;- 9417188501
3	Dr. Abhay Kumar Thakur (LM-9941)	Principal Scientist (AS & PE) ICAR National Institute of Research on Jute & Allied Fibre Technology, 12 Regent Park, Kolkata – 700 040 (West Bengal) Email: akthakur_ciphet@rediffmail.com Mob: +91 8986655051
4	Dr. Arjamadutta Sarangi (LM - 10126)	Principal Scientist RN-12, Water Technology Center I.A.R.I., New Delhi – 110 012 Email: asarangi@iari.res.in arjamadutta.sarangi@mail.mcgill.ca Mob: +91 9811 400 885 Tel:- 011- 25846790
6) DISTINGUISH SERVICE CERTIFICATE		
1	Dr. Mathala Juliet Gupta (LM - 9993)	Scientist (SS) (AS & PE), ICAR – CCARI, Ela, Old Goa - 403 402, (Goa) Telephone No. 08322284678, 9765125769 E-mail mathalajuliet@gmail.com
2	Dr. Vinod Kumar Tripathi (LM - 10513)	Assistant Professor Department of Farm Engineering Institute of Agricultural Sciences Banaras Hindu University, Varanasi – 221 005 (Uttar Pradesh) Email: tripathiwtcer@gmail.com Mob: +91 8987 661 439
3	Dr. Subir Kumar Chakraborty (LM - 10760)	Senior Scientist Agro Produce Processing Division ICAR-Central Institute of Agricultural Engineering Nabi Bagh, Berasi Road, Bhopal – 462 038, (Madhya Pradesh)

		Email: subir8275@yahoo.co.in subir8275@gmail.com Mob: +91 8819900845, 8989162062
4	Er. Hridyesh Pandey (LM - 10129)	Associate Professor, Department of Food Engineering College of Food Processing Technology Bio-Energy, Anand Agricultural University, Anand – 388 110 (Gujarat) E-mail: hridyeshpandey@gmail.com Mob:- 9638754750
7) ISAE TEAM AWARD		
1	Dr. Laxmikanta Nayak (LM-10178) (Team Leader)	Senior Scientist Division of Transfer of Technology ICAR - NIRJAFT, 12 Regent Park Kolkata- 700 040 (West Bengal) Email:- laxmikanta8495@rediffmail.com Mob:- 9433152846 Tel:- 033- 24212215
1/2	Dr. Vidya Bhushan Shambhu (LM - 10017)	Senior Scientist (FMP) Transfer of Technology Division ICAR-NIRJAFT, 12, Regent Park, Kolkata – 700 040 (W. B.) Email vbs9605@gmail.com and vbs9605@yahoo.co.in Tel:- 033- 24212115/16/17
8) BEST CHAPTER AWARD		
1	Dr. S P Bansal	Chairman, ISAE Haryana Chapter College of Agricultural Engineering & Technology, CCS Haryana Agricultural University, Hisar – 125 004 (Haryana) Email:- shishpalbansal@yahoo.com
9) BEST PAPER AWARD		
1	Nitin Karwasra	JAE Vol. 54 No. (02) Page 01-09 Field of Specialization (Farm Machinery & Power) Title: Tractor Drawbar Performance Prediction Using Artificial Neural Network
2	Anil Kumar	
3	Amarjit Kalra	
4	S Mukesh	
5	Vijaya Rani	
6	Sarita	
7	N L Kushwaha	JAE Vol. 54 No. (03) Page 48-56 Discipline: Soil & Water Engineering Title: Remote Sensing & GIS Based Morphometer Analysis for Micro-Watershed Prioritization in Takala- Ballowal Watershed
8	Anil Bhardwaj	
9	A Borah	JAE Vol. 54 No. (02) Page 40-49 Discipline: (Food Processing) Title: Utilization Efficiency and Entrepreneurial Potential of Solar Biomass Integrated Drying System
10	L N Sethi	
11	S Sarkar	
12	K Hazarika	
10) OUTSTANDING BOOK AWARD		
1	None Found Suitable	
11) ISAE TAFE STUDENT GOLD MEDAL AWARD		
Ph. D		
1	Dr. Roaf Ahmad Parray	Scientist







	(LM - 11221)	Division of Agricultural Engineering ICAR- IARI, New Delhi – 110 012 Email:- rouf.engg@gmail.com Mob:- 8130223438
M. Tech		
2	Er. Yallappa D	Dept. of Farm Machinery and Power Engineering College of Agricultural Engineering, University of Agricultural Sciences, Raichur – 584 104 (Karnataka) Email:- yallappa.raravi@gmail.com Mob:- 9731699345
B. Tech		
1	Er. Vivek R Kamat	Room No- 43, Kailash Hostel CCSHAU Campus Hisar, Haryana – 125 004 Email:- vivekkamat834@gmail.com Mob:- 8880553663

New ISAE- Executive Council for the Session 2018-21

	Name & Address	Position	Contact Details
1.	Dr. Gajendra Singh F- 57 (LM- 1359) C-86, Millennium Apartments Plot E-10A , Sector - 61 NOIDA – 201 301 (Uttar Pradesh)	Patron 	Email: prof.gsingh@gmail.com gajendra.singh45@gmail.com Mob: +91 9971 0875 91
2.	Dr. Indra Mani Mishra F – 204 (LM - 7686) Professor & Head Division of Agricultural Engineering, IARI. Pusa, New Delhi- 110 012	President 	Email: maniindra99@gmail.com M Mob: +91 9868 656 885
3.	Dr. N C Patel F- 195 (LM - 1962) Vice Chancellor Anand Agricultural University, Anand (Gujarat) – 388 110.	Immediate Past President 	Email:- ncpatel1956@gmail.com Mob:- 09998009960
4.	Dr. Y C Bhatt F-231 (LM - 2473) Deptt.:- of FMP, CTAE, MPUAT,	Vice President (Activity Council)	Email:- drycbhatt@hotmail.com

	Udaipur (Raj) – 313 001 1-Shantinagar Roopsagar Marg University Road, Udaipur– 313 001 (Rajasthan)		Tel:- 0294-2470119, 2413433 Mob:- 09414168434
5.	Dr. Champat Raj Mehta F-206 (LM-7036) Project Coordinator C.I.A.E., Nabi Bagh, Berasia Road, Bhopal-462 038 (Madhya Pradesh)	Vice President (Technical Council) 	Email:- crmehta65@yahoo.co.in Mob:-
6.	Dr. Manoj Khanna (LM - 7671) Principal Scientist & Incharge FOSU, Water Technology Centre, ICAR-IARI, New Delhi – 110 012	Secretary General 	Email: mkhanna@iari.res.in khanna_manoj2001@yahoo.com.au Mob:-: 9818403246
7.	Dr. (Mrs.) Susama Sudhishri (LM – 10498) Principal Scientist, Water Technology Centre ICAR-IARI, Pusa New Delhi – 110 012	Secretary-I 	Email: susama_s@rediffmail.com Mob:- 09971931921
8.	Dr. Dilip Kumar Kushwaha (LM – 11493) Scientist Division of Agril. Engg. ICAR-IARI, Pusa, New Delhi – 110 012	Secretary-II 	Email:- sdkkushwaha@gmail.com Mob:- 8826575860
9.	Dr. Arun Kumar T V (LM-10603) Division of Agril. Engg. ICAR-IARI, Pusa, New Delhi – 110 012	Treasurer 	Email:- arun.agrilengg@gmail.com Mob:- 8882090095
10.	Prof. Shobh Nath Yadav (LM – 10154) Associate Professor (Farm Power and Machinery) College of Agricultural Engineering and Post Harvest Technology (Central Agricultural University, Imphal) Ranipool, Gangtok (Sikkim) 737 135	Director (Membership & Public Relations) 	Email: snayadvbpl@yahoo.com Mob 9933469544/8918633929
11.	Dr. Bhom Singh Deora F - 234 (LM- 1101) S. D. Agricultural University, Sardarkrushinagar,	Director (Awards)	E-mail: deorabs@gmail.com Tel. -02748-278889, Mob: 09426380259

	Gujarat-385 506		
12.	Dr. Jaskarn Singh Mahal (F - 221) Dean, College of Agricultural Engineering Punjab Agricultural University Ludhiana (Punjab) – 141 004	Director (Farm Machinery & Power) 	Email:- jsmahal@pau.edu Mob:- 9501500367
13.	Dr. Manoranjan Kumar (LM-10135) Principal Scientist (SWCE) Division of Resource Management ICAR-Central Research Instt for Dryland Agricultural, Santosh Nagar, Saidabad P.O. Hyderabad – 500 059 (Telangana)	Director (Soil & Water Engineering) 	E-mail: manovpkas@rediffmail.com Mob:- 9676771937
14.	Dr Devinder Dhingra (LM-7559) Senior Scientist (AS & PE) Room No. 411, Agril. Engg. Division KAB – II, ICAR, PUSA New Delhi – 110 012	Director (Processing Dairy & Food Engineering) 	Email: devinder.dhingra@gmail.com Mob: +91 9873 213 230
15.	Dr. Shyam Sunder Kapdi (LM – 7776) Professor & Head, Bio-Energy Department College of Food Processing Technology & Bio-Energy Anand Agricultural University, Anand - 388 110 Gujarat	Director (Energy & Other Areas) 	E-mail: ss_kapdi@rediffmail.com Te l. No. (02692) 261302 ext.21 Mob:- 878828768
16.	Dr. Ganti Suryanarayana Murthy (LM – 10827) Professor 122 Gilmore Hall, Biological and Ecological Engineering, Oregon State University, Corvallis OR 97331-3906,	Director (International Cooperation) 	Email: murthyg@oregonstate.edu Ph: 541 737 6291 Fax: 541 737 2082 Mob: 541-737-6291

17.	Dr. Adisumilli Mani (LM- 9523) Associate Professor, Department of Agricultural Engineering, College of Agriculture, Acharya N.G. Ranga Agricultural University, Rajendra Nagar, Hyderabad – 500 030 (Andhra Pradesh)	Director (Education, Extension & Placement) 	Email: manidigumarthi@rediffmail.com Mob:- 99896 25205
18.	Mr. Balchandra Babu President, Farm Implement India Limited Chennai (TN)	Director (Business & Industry) 	Email: Balachandra.babu@gmail.com Tel:- 044-28261676, 28273493
19.	Dr A P Srivastava F – 191 (LM - 5274) Flat No. 142 Pocket GH-13, Paschim Vihar Delhi – 110 087	 Chief Editor (AET)	Email:- srivastava_ap@rediffmail.com Mob:- +91 9818 701 559
20.	Dr Dipankar De F – 210 (LM – 2049) F-No.-K-1004, Prateek Laurel Sector-120, Noida (U.P)- 201 307	Chief Editor (JAE) 	Email:- dipankar_engg@iari.res.in Mob- +91 9899 401 810
21.	Dr. R T Patil F- 172 (LM - 4649) Group Director 13/14, Shalimar Enclave, E-3 Arera Colony, Bhopal – 462 016 (Madhya Pradesh)	E-News Letter 	Email:- ramabhau@gmail.com ramabhau@yahoo.com Mob:- 8964030701, 7898667567 Tel:- 011-25842336
22.	Er. Neeraj Srivastava (LM – 10557) Subject Matter Specialist (Engineering), Soil Conservation Section, Directorate of Agriculture (Krishi Bhawan) Gokhale Marg, Lucknow – 226 001 (Uttar Pradesh)	State Service 	Email:- neesriva@hotmail.com Mob:- 0522-2204579

Upcoming Event

Global Water Security Conference for Agriculture and Natural Resources

Effective and efficient management of water resources is vital to agricultural productivity worldwide, making water security and food security inexorably linked in sustaining human well being. Demand for fresh water is expected to outpace availability, threatening food production, public health, biodiversity, and energy generation, as well as foreign policy and international security. Strategies to increase the efficiency of water use and enhance agricultural productivity are in critical need and require a systematic approach that involves actions at all levels, from production techniques to land use management, sustainable intensification, climate smart agriculture, and collaboration among governmental agencies, private industry, and academia.

The American Society of Agricultural and Biological Engineers, in collaboration with the Indian Society of Agricultural Engineers, will be presenting Global Water Security for Agriculture and Natural Resources, to bring together farmers, researchers, practitioners, entrepreneurs, and policy makers on a common platform to discuss current and future water security problems, share research, and discuss creative solutions that can be applicable at various scales in different regions. The conference will specifically focus on water security for producing food, fiber, and energy crops as well as maintaining water quality and quantity needed for ecosystem health and services.

This conference will be held by ASABE in collaboration with ISAE, New Delhi during Oct 3-6, 2018 at Taj Krishna Hotel in Hyderabad, India.

List of ISAE Life Member during January to March, 2018

January, 2018				
1.	LM - 11522	Dr. Bhupendra M Ghodki	Abohar	Punjab
2.	LM - 11523	Dr. K Mallika	Raichur	Karnataka
3.	LM - 11524	Er. Utpal Ekka	Krishi Kunj	New Delhi
4.	LM - 11525	Dr. Aavidai Anandhi	Florida	USA
5.	LM - 11526	Dr. Surendra Poonia	Jodhpur	Rajasthan
6.	LM - 11527	Dr. Chintan Harshad Vaishnav	Cambridge	USA
7.	LM - 11528	Dr. Samarendra Mahapatra	Khordha	Odisha

8.	LM - 11529	Dr. Sahdev Singh	Noida	Uttar Pradesh
9.	LM - 11530	Er. Nilesh Daulatrao Chavan	Khed	Maharashtra
10.	LM - 11531	Er. Charith Kumar Kanakabandi	(ISAE Telangana Chapter)	
11.	LM - 11532	Er. Ramya Bommika		
12.	LM - 11533	Er. Sudha Rani Rathnala		
13.	LM - 11534	Dr. Kalay Khan		
14.	LM - 11535	Dr. Subhash Thakur	Jabalpur	Madhya Pradesh
15.	LM - 11536	Er. Gajanan Suryakant Kothawade	Nizampur	Maharashtra
16.	LM - 11537	Er. Geethu Krishnan	Kollam	Kerala
17.	LM - 11538	Er. Mukesh Kumar Choudhary	Jaipur	Rajasthan
Febuary, 2018				
18.	LM - 11539	Er. Anil Kumar Reddy Challam	Ranipool	Sikkim
19.	LM - 11540	Er. Vijay Shankar Kushwaha	Ranipoo	Sikkim
20.	LM - 11541	Er. Deependra Rajoriya	Mysuru	Karnataka
21.	LM - 11542	Er. Jyoti Dhakane	Mumbai	Maharashtra
22.	LM - 11543	Dr. Ibrahim Kaleel	Saidabad	Hyderabad
23.	LM - 11544	Er. Lavanya M N	Thanjavur	Tamil Nadu
24.	LM - 11545	Er. Yuvraj Khasherao Bhosale	Thanjavur	Tamil Nadu
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March, 2018				
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