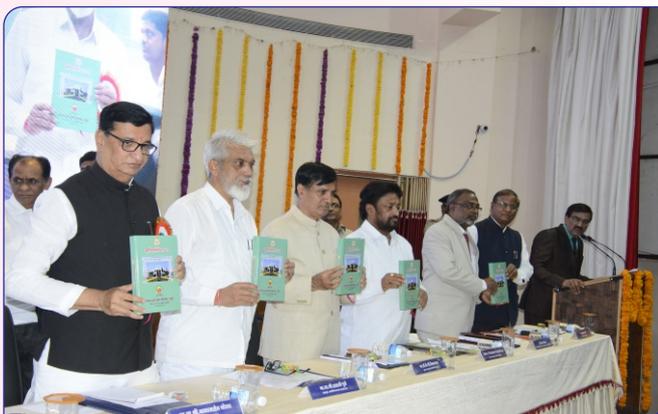


MAGOVA - 2019 and Rabi Farmers Rally organized



January 11, 2020. *Magova-2019* (Retrospection), a programme to review the various activities of the University during the year 2019 and a Rabi Farmers Rally in coordination with State Department of Agriculture was organized in the university. Shri. Dadaji Bhuse, Hon'ble Minister of Agriculture, M. S. and Pro-Chancellor, MPKV, Rahuri was the Chief Guest, while, Shri. Balasaheb Thorat, Hon'ble Minister of Revenue, M. S. was the guest of honour for the function. Vice Chancellor Dr. K.P. Viswanatha presided over the function. Shri. Lahu Kanade, MLA, Shri. Vishwajit Mane, Director General, MCAER, Pune, Executive Council member and MLC Shri. Prakash Gajbhiye, Prof. Nathaji Chougule, Mrs. Sunita Patil, Shri. Prataprao Shelke, Vice President, Zilla Parishad, Ahmednagar, Directors, Associate Deans, Officers of the university were present on the dais.

The Chief Guest Shri. Dadaji Bhuse in his address complimented the University for its contribution to agricultural development. He said that the Government is focusing on farmers' issues and how we can increase the livelihood of farmers. The SAUs have an important role in this regard, he said. He further stated that the technology should reach at the farmers' door. Feedback of farmers is very much needed for refinement of technologies. The farmer's scientific efforts also need to be appreciated, he said. Shri. Balasaheb Thorat in his address asserted that the Government would take positive decisions for implementing appropriate policies for the farmers. He reminded that MPKV has implemented innovative programmes like Agriculture Technology Week for showcasing of farm technologies. The MPKV released varieties and technologies have brought good income to the farmers, he said.





Vice Chancellor Dr. K.P. Viswanatha in his welcome and introductory remarks highlighted the significant contributions of MPKV in education, research and extension education. He also focused on the economic impact of MPKV released crops, fruit and vegetable varieties. Shri. Gajbhiye and progressive farmer *Krishibhushan* Shri. Vishnu Jare also spoke on this occasion. Dr. S. R. Gadakh presented the research and extension activities of the past year. Dr. A. L. Pharande, Dean, Faculty of Agriculture and Shri. Sopan Kasar, Registrar presented the reports on education and administration, respectively.

The popular University publication *Krishi Darshani-2020*, Accomplishments-2019 and MPKV: At a Glance were released during the function. MPKV Calendar-2020, depicting monthwise agricultural information was released on the occasion of *Magova* programme. The university website was also launched. Dr. V. V. Sadamate, Former Member of Planning Commission, Dr. K. D. Kokate, Former Director of Extension Education, Shri. Vijay Ghawate, Director, Planning, M.S., Dr. V. S. Shirke, Director, Extension and HRD, MCAER, Pune, Comptroller Er. Vijay Kote, University Engineer Er. M. P. Dhoke, Associate Deans Dr. D. D. Pawar, Dr. P. N. Rasal, Dr. S. B. Kharbade, Dr. S. R. Ranpise, Dr. G. G. Khot, Dr. Y. G. Fulpagare, Nodal Officer of PAHCoA, Halgaon Dr. V. D. Shende, Shri. Shivajirao Jagtap, DSAO, Ahmednagar, Heads of

Departments, staff, farmers and students were present on this occasion. A photographic exhibition was also organized on this occasion. Dr. A. V. Solanke anchored the programme, while, Dr. S. R. Gadakh proposed vote of thanks. In the morning session the Hon'ble Ministers including Shri. Shankarrao Gadakh, Hon'ble Minister of Water Conservation, M. S. visited the rabi crop demonstrations organized at Sorghum Improvement Project of the university.

International Symposium on Artificial Intelligence based Future Technologies in Agriculture and 54th Annual Convention of ISAE organized



January 7-9, 2020. An International Symposium on Artificial Intelligence based Future Technologies in Agriculture and 54th Annual Convention of Indian Society of Agricultural Engineers (ISAE) was organized by the CAAST-CSAWM project and DrASCAE&T, MPKV, Rahuri and ISAE, New Delhi at Hyatt Regency, Pune. Mr. John Reid, Director, Product Technology and Innovation, John Deere, Shri. S. K. Diwase, IAS, Commissioner of Agriculture, Govt. of Maharashtra and Dr. V. K. Tewari, Director, IIT, Kharagpur, India inaugurated the symposium. The function was presided by Vice Chancellor Dr. K. P. Viswanatha. Dr. Tewari, in his address mentioned the advanced technologies like artificial intelligence and IoT for increasing agricultural production. Dr. K. Alagusundaram emphasized on technology exposure especially to the students for attaining research of international level. Shri. Diwase highlighted the use of protected cultivation. Dr. Viswanatha hoped for creating awareness of these technologies among the farmers. Dr. S. D. Gorantiwar, Head, Dept. of Agril. Engg., MPKV, Rahuri and Organizing Secretary, ISAE Convention and PI, CAAST-CSAWM introduced the delegates and participants; and provided an overview of the International Symposium. For this symposium, distinguished delegates from industry and academia were present. Special guests were Dr. V. K. Tewari, Professor, IIT, Kharagpur, Dr. Gajendra Singh, Foreign Fellow, NAAS, New Delhi, Dr. A. L. Pharande, Dean Faculty of Agriculture, Dr. S. R. Gadakh, Director of Research, Dr. Manzul





Kumar Hazarika, Director, Geoinformatics Centre, AIT, Bangkok, Thailand, Dr. Lav Khot, Dr. Sindhuja Sankaran, Dr. David Brown from WSU, USA, Dr. Ganesh Bora from MSU, USA. Dr. M. G. Shinde, Co-Principal Investigator, CAAST-CSAWM project was session coordinator for the programme. Entire session of symposium had total five different sessions on five different themes: Theme I- Big data driven Artificial Intelligence and Future Agriculture; Theme II- Ground and Aerial Robotic Solutions in AI Era; Theme III- Internet-of-Things (IoT) and Farm Connectivity; Theme IV- Precision to Digital Agriculture Technological Transition; and Theme V- Application of AI in agriculture and water resources. Dr. Gorantiwar anchored the programme, while, Dr. Shinde expressed vote of thanks.

Session I

The session I was on the theme Big data driven Artificial Intelligence and Future Agriculture. This session was chaired by Shri. U.D. Shirsalkar, Chief General Manager, NABARD, Maharashtra Regional Office, Pune and co-chaired by Dr. S.A. Kulkarni, Former Secretary, MWRRA and Former Executive Secretary, ICID. Dr. B.B. Gaikwad, Scientist (FMP), ICAR-NIASM, Baramati was rapporteur for the entire session. Dr. Aavudai Anandhi, Florida A and M University, Dr. Sindhuja Sankaran, WSU Pullman, USA and Er. Sandip Joshi, Director, Innovation Centre, John Deere India, Pune were key note speakers of the very first session presented on Artificial Intelligence applications, Artificial Intelligence and Machine Learning guided crop improvement: Phenomics perspective and Precision Agricultural Machineries, respectively.

Session II

This session was on the theme Ground and Aerial Robotic solutions in AI Era and chaired by Dr. Gajendra Singh, Foreign Fellow, NAAS, New Delhi, co-chaired by Dr. Rosnah Binti Shamsudin, President, Malaysian Society of Agricultural Engineers, Kuala-Lumpur, Malaysia and Dr. S.P. Agrawal, Group Head, Water Resources Department, IIRS, Dehradun. Dr. A.A. Atre, CAAST-CSAWM Team Member and Professor, SWCE, MPKV, Rahuri was rapporteur of the session. Dr. Siva K. Balasundaram, Dr. Manzul Kumar Hazarika and Dr. S.P. Agrawal keynote speakers presented the topic Role of precision agriculture in mitigating climate change; Drones and Google Earth Engines for Agriculture and Water Management; and Applications of satellite images for Agriculture, whereas, Dr. A.K. Roul was oral presenter presented on the topic Development and Evaluation of Automated Slip and Draft Control System.

Session III

This session was on the theme Internet-of-Things and Farm Connectivity chaired by Dr. Mukul Varshney, Vice President, Public Affairs, John Deere, Pune and co-chaired by Mr. Pravin Kolhe, Superintending Engineer, Water Resources Department, Govt. of Maharashtra, whereas, Dr. P.U. Shahare, DBSKKV, Dapoli was rapporteur. In this session, two keynote speakers presented their work. Dr. David Brown, Associate Professor of Soil Science and Director, AgWeatherNet, Washington State University, Pullman, USA presented the topic Hyperlocal weather forecasting for agricultural decision support and Dr. Ganesh Bora, Associate Professor, Agricultural and Biological Engineering Department, MSU, Starkville, USA on the topic AI driven controls for agriculture. One oral presentation on the topic Diseased leaf detection using GLCM and SVM by was presented by Dr. U.N. Fulari and Dr. R.K. Shastri.

Session IV

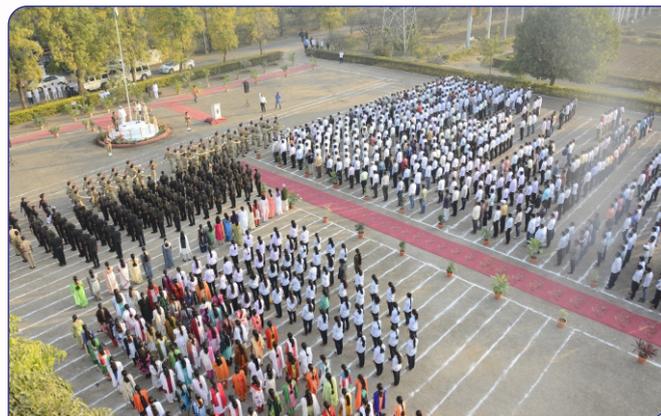
This session was on the theme Precision to Digital Agriculture Technological Transition chaired by Dr. Manzul Kumar Hazarika, Director, Geoinformatics Centre, AIT, Bangkok, Thailand and co-chaired by Dr. Pragati

Gokhale, Advisor, Rajeev Gandhi Foundation of Technology, Nagpur and Dr. D.S. Pandit, Director, Water Resource Management, RTI, Pune. Dr. S.N. Nalawade, CAAST-CSAWM Member and Head, Dept. of FMPE, MPKV, Rahuri acted as rapporteur. Dr. Lav Khot, Assistant Professor, Department of Biological Systems Engineering, WSU, Pullman, USA presented on the topic Crop production management in digital agriculture era: a few case studies and Dr. Sagaya Amalathas, Taylors University of Malaysia, Malaysia gave presentation on the topic Managing yield production using predictive analytics during the session.

Session V

This particular session was on the theme Application of AI in agriculture and water resources chaired by Dr. G.C. Bora, Mississippi State University, Starkville, MS, USA and co-chaired by Er. Sachin Kamble, AGM, NABARD. Dr. Sanjay Satpute, PAU, Ludhiana and Dr. S.K. Dingre, MPKV, Rahuri were rapporteurs of the session. Dr. G. S. Murthy, Professor, IIT, Indore was keynote speaker and presented the topic Applications of Artificial Intelligence in agriculture and water resources. In this session Dr. S. D. Gorantiwar, Head, Department of Agricultural Engineering, and Principal Investigator, CAAST-CSAWM, MPKV, Rahuri presented the Mobile Applications for Precision Irrigation Scheduling in oral presentation.

Republic Day celebrated



January 26, 2020. The country's 71st Republic Day was celebrated in the university. Vice Chancellor Dr. K. P. Viswanatha hoisted the national flag. While addressing the staff and students Dr. Viswanatha highlighted the contribution of MPKV in the field of education, research and extension education. He said that the university students have achieved remarkable success in JRF, SRF and NET exams. The university is also successfully implementing the CAAST project under NAHEP, ICAR, New Delhi. The university has released various crop varieties, improved implements and technology recommendations for the farmers last year. He further said that farmers are being benefitted through various extension programmes and projects. Dr. A. L. Pharande, Dean, Faculty of Agriculture, Registrar Shri. Sopan Kasar, Comptroller Er. Vijay Kote, University Engineer Er. M. P. Dhoke, Associate Deans Dr. D. D. Pawar, Dr. Y. G. Fulpagare, Nodal Officer of PAHCoA, Halgaon Dr. V. D. Shende, staff, students and employees were present in large number. Mr. Goraksha Shete, Security Officer anchored the programme. The NCC cadets under the guidance of Prof. Sunil Fulsawange gave the salute. A Blood Donation Camp was also organized at DrASCAE & T on this occasion.

Republic Day at Dhule

January 26, 2020. The nation's Republic Day was enthusiastically celebrated at College of Agriculture, Dhule. Associate Dean Dr. M. C. Ahire hoisted the national flag. In his address to the staff and students, he said that we need to maintain the integrity of our country. The Indian constitution has given us rights and we also need to



execute our responsibility for the progress of the nation. Conservation of the environment is needed and college campus needs to be clean and green, he said. The NCC cadets led by Dr. S. D. Patil conducted the march pass. Student Welfare Officer Prof. Jitendra Suryavanshi anchored the programme, while, Prof. Pushpashil Shelke proposed thanks.

Intercollegiate AVISHKAR competition organized



January 19, 2020. The Intercollegiate AVISHKAR competition for 2019-20 was organized at MPKV, Rahuri. It was inaugurated at the hands of Dr. Y. G. Fulpagare, Associate Dean, Post Graduate Institute, MPKV, Rahuri. In his address Dr. Fulpagare called for developing research oriented ideas which would be useful to the society. He said that AVISHKAR is a good platform for the students to show their inbuilt capacities of research. This event has contributed a lot for research

and innovations, he remarked. A total of 13 colleges comprising of 119 students participated in this event. Two top winners from six subject categories each of UG, PG and Ph. D. degrees will be selected and they would be representing the university in the statelevel event scheduled in Mumbai University. Dr. M. R. Chouhan, Students Welfare Officer gave the introductory remarks. Prof. D. M. Gaikwad anchored the programme, while, Dr. R. J. Desale expressed thanks. Dr. R. M. Naik, Vice President, Student Council, PGI, Heads of Departments, Supervision officer Dr. Atul Atre and students were present on this occasion.

MPKV ICAR Farmer FIRST programme adjudged Best Presentation Award



January 3, 2020. The ICAR Farmer FIRST programme of MPKV, Rahuri was presented with the Best Presentation Award in the Annual Review Meeting held at KVK, Babhaleshwar. Dr. P. B. Kharde, PI and Dr. S. S. Sadaphal, Co-PI received the certificate at the hands of Dr. Lakhan Singh, Director, ICAR-ATARI, Zone-VIII, Pune. Krishi Vigyan Kendras and ICAR FFPs from Maharashtra and Gujarat states participated in the two days Annual Review Meeting. ICAR FFPs from

MPKV, Rahuri, NAU, Navsari and JAU, Junagadh presented their reports. Dr. R. K. Singh, Former Head, Department of Agril. Economics, CSAAUT, Kanpur, Dr. Sambhaji Nalkar, Head, KVK, Babhaleshwar were present on the dais. MPKV's ICAR FFP is being implemented in Chinchvihire and Kangar villages and it is focusing on integrated farming system for sustainable income to the farmers. Vice Chancellor Dr. K. P. Viswanatha and Director, Extension Education Dr. S. R. Gadakh congratulated the MPKV's ICAR FFP team.

Visit of dignitaries to ICAR Farmer FIRST programme village



January 3, 2020. Dr. Lakhan Singh, Director, ICAR-ATARI, Zone-VIII, Pune along with Dr. R. K. Singh, Former Head, Department of Agril. Economics, CSAAUT, Kanpur, KVKs of Maharashtra and Gujarat and ICAR FFPs from NAU, Navsari and JAU, Junagadh visited the MPKVs ICAR FFP village Chinchvihire. At the outset Dr. P. B. Kharde, PI of ICAR FFP welcomed the dignitaries and scientists. He briefed about the various activities that are being implemented under this programme. The participant farmer Shri. Abhijit Gite gave information of his red gram demonstration plot of Phule Rajeshwari. Shri. Vishal Gite showed his backyard poultry and shared his experiences. The team then visited the chickpea demonstration field of Phule Vikram variety of Shri. Gorakshanath Shinde. He explained about his vermicompost unit. The team was satisfied to visit the six acre Phule Bhagwa pomegranate orchard of participant farmer Shri. Macchindra Shete. Further, they visited the mini dal mill processing unit of Self Help Group. Finally, the team visited the integrated farming system components of farmer Shri. Anil Nalkar and Mrs. Savita Nalkar. Dr. Lakhan Singh guided the farmers on this occasion. Shri. Mahendra Thokle, Taluka Agriculture Officer, Rahuri, farmers and farm women participated in the visit. Dr. S. S. Sadaphal, Co-PI anchored the programme. Shri. Vijay Shedge, SRF and Shri. Kiran Magar, Field Assistant took efforts for organizing the visit.

Inter Agriculture Schools sports organized



January 17-18, 2020. The Inter Agriculture Schools Sports Competition was organized at MPKV, Rahuri. Dr. Y. G. Fulpagare, Associate Dean, Post Graduate Institute, MPKV, Rahuri inaugurated the event. Dr. Fulpagare said that the importance of sports in one's life is well known. Regularity in playing games is important. Sports are an essential part of our life since our health depends on it. Team spirit is aroused due to sports and hence students need to play sports regularly, he said. Dr. S. A. Ranpise, Associate Dean, Lower Agriculture Education in his introductory remarks highlighted the importance of sports and briefed about the

events. Shri. Vijay Kote, Comptroller, Dr. D. D. Pawar, Associate Dean, DrASCAE&T and Dr. M. R. Chouhan, Students Welfare Officer also addressed the players. Yogita Darekar gave oath to all the participants. Mrs. Suvarna Bachkar anchored the programme, while, Dr. J. H. Gaikwad proposed thanks. A total of 360 players of boys and girls from university jurisdiction participated in the competition. Dr. R. M. Naik, Vice President, Student Council, PGI, Heads of Departments, Prof. D. M. Gaikwad and Principles of Agriculture Schools were present on this occasion.

National Mushroom Day celebrated



January 4, 2020. The National Mushroom Day was celebrated at College of Agriculture, Pune. It was organized by All India Coordinated Mushroom Research Project. A training programme was organized on this occasion. Associate Dean Dr. P. N. Rasal inaugurated the event. Dr. S. D. Masalkar, Principal, College of Horticulture, Pune, Dr. V. S. Supe, Associate Director of Research, NARP, Ganeshkhind, Dr. Anil Gaikwad, Incharge, AICRP on Mushroom were present for the

programme. Dr. Rasal in his address highlighted the importance of mushroom in our diet. The young entrepreneurs need to study the marketing aspects along with the production of mushroom. This business has a great scope and the trainees need to study the detailed aspects. The mushroom entrepreneurs Shri. Rameshwar Shewale, Shri. Anil Bhokre and Shri. Ramesh Randive shared their experiences. An exhibition of mushroom products was also organized. Dr. Gaikwad gave the introductory remarks. Dr. Ashok Jadhav anchored the programme. About 127 trainees were present on this occasion.

Training programme organized under ICAR Farmer FIRST programme



January 20, 2020. An offcampus Training Programme on Pomegranate Production Technology was organized at Kangar village under the ICAR Farmer FIRST programme. Dr. P. B. Kharde, Officer Incharge, Communication Centre and PI, ICAR FFP at the outset presented the success stories of pomegranate farmers through ICAR FFP during the last two years. Dr. Ashok Walunj, Entomologist guided the farmers on plant protection in pomegranate production. He underlined the need for maximum use of bioagents and proper identification of pests and diseases. Prof. Manjabapu Gawade, Assistant Professor of Horticulture guided on scientific cultivation of pomegranate along with water and nutrient management. Prof. M. M. Desai, Manager,



ATIC also guided the farmers. Dr. S. S. Sadaphal, Co-PI anchored the programme, while, Shri. Vijay Shedge, SRF expressed thanks. More than fifty farmers were present for the training programme. In the afternoon session the scientists visited the pomegranate orchards of Shri. Babasaheb Warghude (Kangar). Shri. Dilip Nalkar (Chinchvihire) and Shri. Maruti Gite (Chinchvihire) and guided them. Shri. Kiran Magar, FA took efforts in organizing the programme.

MPKV Staff Sports Team Runners up in State level Inter SAU Staff Sports Competition



January 24-26, 2020. The MPKV staff sports team ended runners up in the second All Maharashtra Inter State Agricultural University Staff Sports Competition-2020 held at Vasantnao Naik Marathwada Krishi Vidyapeeth, Parbhani. The State Agriculture University staff teams from Maharashtra viz., MPKV, Rahuri, Dr PDKV, Akola, Dr. BSKKV, Dapoli, VNMKV, Parbhani and MAHABEEJ, Akola participated in this competition. The event was inaugurated at the hands of

Dr. Ashok Dhawan, Vice Chancellor, VNMKV, Parbhani, Dr. Vilas Bhale, Vice Chancellor, Dr.PDKV, Akola and other dignitaries. More than 200 staff sportsmen and women participated in this three day event. VNMKV, Parbhani won the General Championship. The MPKV staff sports team won the Table Tennis (Men) and Table Tennis (Women) games. They were runners up in Basketball, Cricket, Volley ball, Badminton (Women), Chess (Women) and *Rassikhech* (Men and Women). Dr. Ravindra Bansod won the 400 m race in athletics, while, Shri. Sharad Shirsath was ranked third in 800 m run. Mrs. Seema Mistri stood second in *rangoli* competition. Dr. J. H. Gaikwad won the third prize in *geetgayan* competition. The teams were guided by Dr. M. R. Chouhan, Student Welfare Officer, Prof. Dilip Gaikwad, Sports Officer, Physical Training Instructors Dr. Abhijit Nalawade and Shri. Borse. MPKV received the Runners up Trophy at the hands of Shri. Ranjit Patil, Registrar, VNMKV, Parbhani. Vice Chancellor Dr. K. P. Viswanatha and Directors Dr. A. L. Pharande, Dr. S. R. Gadakh and Registrar Shri. Sopan Kasar congratulated the teams for this success.

CAAST-CSAWM project activities

International Workshop on Course Curricula Development for Post Graduate Diploma in Climate Smart Agriculture organized

January 11-12, 2020. The Centre for Advanced Agricultural Science and Technology for Climate Smart Agriculture and Water Management organized an International workshop on Course Curricula Development for Post Graduate Diploma in Climate Smart Agriculture at central campus, MPKV, Rahuri. The function was presided over by Vice Chancellor Dr. K. P. Viswanatha. In his inaugural address Dr. M. C. Varshneya, Former Vice Chancellor, Kamdhenu University, Gujarat briefed about the role of Climate Smart Agriculture and Water Management in Socio-Economic development, Dr. V. Sadamate, Advisor, Indian Society of Agribusiness Professionals explained the importance of teaching, research and extension in Climate Smart Agriculture and Water Management. He narrated the role of extension system for socio-economic development of the country. Dr. K.D. Kokate, Former Deputy Director General (Agril. Extension), ICAR,



New Delhi and Former Director of Extension Education, MPKV Rahuri summarized the role, importance of Climate Smart Agriculture and Water Management in sustainable agriculture and socio-economic development. Special guest was Prof. David Brown, Washington State University, Pullman, USA in presence of Dr. A. L. Pharande, Dean, F/A, Dr. S. R. Gadakh, Director of Research, Dr. D. D. Pawar, Associate Dean, Dr. ASCAE&T, Dr. Y. G. Fulpagare, Associate Dean, PGI, Dr. S. D. Gorantiwar, Convener and Principal Investigator, CAAST-CSAWM, MPKV, Rahuri and Dr. M. G. Shinde, Co-Convener and CO-PI, CAAST-CSAWM, MPKV Rahuri. Dr. V. P. Kad, Organizing Secretary and Member, CAAST-CSAWM welcomed and introduced all dignitaries presented for workshop and gave a brief introduction. After inauguration participants and experts were divided into six groups as per the modules and courses. The groupwise draft of different courses was presented by rapporteurs, suggestions were made and finalized the draft of courses. Invitees from international experts, representatives from Academic Institutes/National Institutes/Research Organizations/NGOs/International and National Industries along with scientists and faculty of university participated as resource persons for this two days International Workshop. Vote of thanks was given by Dr. B. D. Bhakare, Organizing Secretary and Member, CAAST-CSAWM.

Visit of World Bank and ICAR, NAHEP Team to CAAST-CSAWM project



January 23, 2020. Visit of World Bank and ICAR, NAHEP Team, New Delhi for evaluation of NAHEP project of CAAST-CSAWM, MPKV, Rahuri was organized at CC, Rahuri. The visit was started with informal opening-cum-welcome ceremony by Dr. S. D. Gorantiwar, Principal Investigator, CAAST-CSAWM, MPKV, Rahuri. Mr. Edward W. Bresnyan, Senior, Agriculture Economist, World Bank, Mr. David Nielson, Lead Agricultural Services Specialist, World Bank, Mr. Mansur Ahmed, Economist at the Agriculture Global Practice, World Bank, Dr. Prabhat Kumar, National Coordinator (M&E), NAHEP, ICAR, New Delhi were present during this visit. Vice Chancellor Dr. K. P. Viswanatha welcomed the team. Dr. A. L.

Pharande, Dean, Faculty of Agriculture, Dr. S. R. Gadakh, Director of Research and Extension Education, Shri. Vijay Kote, Comptroller, Shri. Milind Dhoke, University Engineer, Dr. Y. G. Fulpagare, Associate Dean, PGI, Dr. D. D. Pawar, Associate Dean, Dr. ASCAET, Dr. M. C. Ahire, Associate Dean, COA, Dhule, Dr. S. D. Gorantiwar, Principal Investigator, CAAST-CSAWM, Dr. M. G. Shinde, Co-Principal Investigator, CAAST-CSAWM, Dr. Jayshree S. Pachpute, Co-Principal Investigator, CAAST-CSAWM, Dr. S. B. Nandgude, I/C, PME Cell and Head, Deptt, of SWCE, Dr. P. L. Kulwal, Nodal Officer, ESP were present on this occasion. Dr. Gorantiwar presented the objectivewise progress of different activities, research and extension which were conducted under this project. The students who had successfully completed one month international level training at AIT, Bangkok, Thailand shared their experiences with World Bank officers. After that the World Bank officers evaluated the progress by visiting the different research fields of the CAAST-CSWAM project. Interaction session was organized with students of MPKV, Rahuri with World Bank, ICAR and NAHEP project Team, New Delhi.

International Scientists-Students Interface programme organized at Pune



January 10 & 12, 2020. An International Scientists-Students Interface programme was organized by CAAST-CSAWM, MPKV, Rahuri at Sub-Campus, College of Agriculture, Pune. This programme was inaugurated by Dr. P. N. Rasal, Associate Dean, College of Agriculture, Pune in presence of Dr. S. M. Masalkar, Principal, College of Horticulture, Pune. Dr. Manzul Kumar Hazarika from AIT, Bangkok, Dr. Lav Khot, Dr. Sindhuja Sankaranand, Dr. David

Brown from WSU, USA, Dr. Ganesh Bora from MSU, USA, Dr. Ravanan from Androit College, Malaysia, Dr. Siva K. Balasundram, UPM, Malaysia, Dr. S. D. Gorantiwar, Head, Agril. Engg., MPKV, Rahuri and PI, CAAST-CSAWM, MPKV, Rahuri, Dr. J. S. Pachpute Co-PI, CAAST-CSAWM, Pune and Organizing Secretary were present on this occasion. Dr. Goarantiwar gave a preamble on CAAST mentioning importance of Robotics, UAVs, IoTs and artificial intelligence in climate smart agriculture and water management with special emphasis on capacity building of the faculty and students. Total seven lectures were organized on different topics by eminent experts from Universities all over the world. This programme was attended by over 300 students and 30 faculties. Dr. Pachpute anchored the programme, while, Dr. Pradip Dalavi expressed vote of thanks. Similar programme was organized at MPKV, Rahuri on January 12, 2020. It was inaugurated by Vice Chancellor Dr. K. P. Viswanatha.

Farmers-Scientists Interface cum Workshop organized at Pune

January 9, 2020. A Farmers-Scientists Interface cum Workshop was organized by CAAST-CSAWM, MPKV, Rahuri in association with Indian Society of Agricultural Engineering (ISAE) at Sub-Campus, College of Agriculture, Pune. The programme was inaugurated by Dr. Indra Mani, President, ISAE. Dr. Ushamani P., Deputy General Manager, NABARD, Mr. Ajay Dhalpawar, Assistant General Manager, Technical Training, NETAFIM Irrigation Pvt. Ltd, Pune, Mr. Venkatesh Shete, Project Manager, Lupin Foundation, Pune in presence of Er. Sachin Kamble, Assistant General Manager, NABARD, Dr. R. D. Bansod, Head, Agril. Engg.,



COA, Pune, Dr. S. D. Gorantiwar, Head, Agril. Engg., MPKV, Rahuri, Organizing Secretary ISAE Convention and PI, CAAST-CSAWM, MPKV, Rahuri. This programme was attended by about 100 farmers from 6 villages. This programme included field visits to Hi-Tech Agricultural Park, mushroom production project, horticulture and Watershed Park during morning session and training cum interactive sessions by Dr. S. S. Magar, Former

Vice Chancellor, DBSKKV, Dapoli on water management, Dr. V.M. Mayande, Former Vice Chancellor, Dr. PDKV, Akola on improved farm machineries, Digital irrigation by Netafim, Plant Protection by Dr. Bhute, mobile marketing by Mrs. Pragati Gokhale, Irrigation mobile apps by Dr. Gorantiwar and Watershed Management by Dr. Bansod. Dr. Gajendra Singh and Dr. Indramani addressed during afternoon session. Dr. Pradip Dalavi anchored the programme, while, Dr. M. B. Khamkar proposed thanks.

Expert lecture on Water Resource Management in Command Area organized



January, 4, 2020. An Expert lecture on Water Resource Management in Command Area was organized by CAAST-CSAWM, MPKV, Rahuri for students and faculty. The expert lecture started with an informal opening-cum-welcome ceremony in the presence of Dr. S. D. Gorantiwar, Principal Investigator, CAAST-CSAWM, Heads of Departments and CAAST-CSAWM members. Shri. Yogesh Paithankar, Chief Engineer and Head, National Water Academy, Khadakwasla,

Pune delivered a lecture on Water Resource Management in command area and interaction of newly appointed officers of Central Water Engineering, (Group-A) services with students and staff. About 75 students and faculty were present. Dr. S. N. Ghadge, Research Associate anchored the programme, while, Dr. S. A. Dhenge, Research Associate expressed vote of thanks.

Demonstration at 107th Indian Science Congress (ISC 2020), UAS, Bangalore



January 3-7, 2020. The Indian Science Congress Association (ISCA) had organized the 107th Indian Science Congress with a theme of Science and Technology for Rural Development at University of Agricultural Sciences, Bangalore (Karnataka). Dr. A. D. Bhagat and Dr. V. S. Malunjar, Research Associates from CAAST-CSAWM participated in this event and presented the technologies developed under CAAST project. Also, in this event participants across

the country presented the technologies developed for agriculture and rural development which is helpful for the CAAST-CSAWM project for the research and development of technologies for climate smart agriculture and water management. As per the mandate, technologies developed by the project team was presented and demonstrated. The response to the exhibits of CAAST-CSAWM from the students/ farmers/ researches/ participants was very good and appreciable. Some farmers requested the demo units of Auto PIS for trials on their farms. Overall the event was very interactive and informative.

Training programmes organized at Pune



January 2 & 3, 2020. Two training programmes on Communication Skills and Personality Development and Stress Management and Stress Management were organized by CAAST-CSAWM, MPKV, Rahuri at Sub-Campus, College of Agriculture, Pune. The programmes were inaugurated by Dr. P. N. Rasal, Associate Dean, College of Agriculture, Pune. Dr. S. D. Masalkar, Principal, College of Horticulture, Pune, Dr. A. B. Kamble, Head, Agronomy section were present for this programme. Dr. Vaibhav Lunkad and Mr. Subhash

Randive were invited as guest speakers for training programme. Dr. Pradip Dalavi anchored the programme and vote of thanks given by Dr. M. B. Khamkar, RA (Horti.) CAAST-CSAWM, Sub-Campus, COA, Pune.



Publisher : Dr. S. R. Gadakh, Director of Extension Education
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