INAUGURAL SESSION

October 20, 2016, Time: 03:30 pm

Venue: Millennium Hall, ICAR-CTCRI, Thiruvananthapuram

ICAR theme song

Welcome : Dr. James George

Director, ICAR-Central Tuber Crops Research Institute

Presidential address: Adv. V.S. Sunil Kumar

Hon'ble Minister of Agriculture and Farmers Welfare, Government of Kerala

Address by : **Dr. A.K. Singh**

Guests of honour DDG (HS), Indian Council of Agricultural Research

New Delhi

Dr. Shashi Tharoor

Hon'ble Member of Parliament

Shri. Kadakampalli Surendran

Hon'ble Minister of Electricity and Devaswom,

Government of Kerala

Release of Publications and Launching of Starch indicator

Inaugural address : Shri. Pinarayi Vijayan

Hon'ble Chief Minister, Government of Kerala

Keynote address : **Dr. T. Mohapatra**

Secretary, DARE & Director General

Indian Council of Agricultural Research, New Delhi

Vote of thanks : **Dr. C.A. Jayaprakas**

President, Indian Society for Root Crops

National Anthem

High Tea

SESSION I TUBER CROPS: THE LIFELINE OF TRIBAL COMMUNITIES			
October 2	0, 2016 10 am to 2 pm		
Chairman	Dr. T.V. Kattimani Vice-Chancellor, Indira Gandhi National Tribal University, Amarkantak, 484886, Madhya Pradesh		
Co-Chairman	Dr. Raghavan Payyanad Rtd. Professor of Folklore Univeristy of Calicut, Malappuram, Kerala:673 635		
Rapporteurs	Dr. S. Sunitha and Dr. Deo Sankar		
Theme Lecture TC-L1	Using tuber crops for improved livelihood of tribal communities		
	Dr. T.V. Kattimani		
Theme Lecture TC-L2	Tribal Communities-Traditional custodian of tuber crop resources in india Dr. James George		
Theme Lecture TC-L3	Tuber crops: The life line of tribal communities		
	Dr. R. Payyanad		
Theme Lecture TC-L	A NABARD and Tribal Development Shri. Mohammed Riyaz		
Invited Lecture TC-I1	Sweet potato utilisation for tribal community in Eastern India Dr. Sreekanth Attaluri Programme Manager, International Potato Centre, Bhuvaneswar, Odisha		
Invited Lecture TC-I2	Dr. Bindu. S Director, KIRTADS, Chevayur, Kozhikode- 673 017		
Invited Lecture TC-I3	Dr. P. Subramanian Director, Tribal Research Centre, M. Palada, Udhagamandalam, Tamil Nadu		

Invited Lectur	re TC-I4 Smt. P.E. Usha State Programme Director, Kerala Mahila Samakhya Society, Thiruvananthapuram	
ORAL PRES	SENTATIONS	
Session Code	Title and Authors	
TC-O1	Farming system models involving tuber crops for livelihood improvement of tribal farmers	
	M. Nedunchezhiyan, J. George, A. Mukherjee, R.C. Ray, K. Laxminarayana, K.R. Rao, K. Pati, K.H. Gowda, V. B.S. Chauhan, V. Bansode, B. Pandey and A.K. Singh	
TC-O2	Tuber crops based farming system – a way forward for livelihood options of Nicobari Tribes in Andaman & Nicobar Islands V. Damodaran, M. Sankaran, L.B. Singh, T.Subramani, I. Jaisankar, James George and S.D. Roy	
TC-O3	Potential of tuber crops in achieving food security and improving the economy of tribal peoples in Manipur A.K. Bijaya Devi and K. James Singh	
TC-O4	Empowerment of tribal farmers of Salem district on the value addition in cassava S. Manickam, M. Velmurugan, S. Suganya and P.S. Kavitha	
TC-O5	Wild tubers consumed by the indigenous communities of Parambikulam and Vazhachal region, Kerala V.V. Rajasree	
POSTER PRESENTATIONS		
TC-P1	Household food and Nutrition security through tuber crop interventions in tribal region of Maharashtra M. Maske, R.V.Bhavani, M. Sayre and M.Sadatpure	
TC-P2	Promotion of root and tuber crops for food and nutrition security and livelihood management in tribal community in West Bengal J. Tarafdar and S. Mitra	

TC-P3	Tuber crops for combating malnutrition and ensuring food availability in the Zero district - Nabrangpur, Odisha R.R. Korada, A. Mukherjee, S.K. Srivastava and J. Kistwaria
TC D4	
TC-P4	Ensuring food and nutritional security through tuber crops in tribal areas
	V. V. Bansode, A. Mukherjee, V.B.S. Chauhan, H. Gowda and R.C. Ray
TC-P5	Resource integration and sustainable tuber production in an agroforestry homegarden of Southern Kerala
	Sheeba Rebecca Isaac, Shalini Pillai P and J. Varghese
TC-P6	Can tuber crops address food and nutritional security of tribal poor?
	A. Pradhan, A.K. Panda, M. Maske and R.V. Bhavani
TC-P7	Enhancing the livelihood of tapioca growing tribal farmers in Salem District
	S. Manickam, S. Suganya, M. Velmurugan and P.S. Kavitha
TC-P8	Impact of improved varieties of cassava on the socio- economic status of tribal farmers of Attapady and Wayanad of Kerala
	R. Muthuraj, James George, S. Sunitha, M.N. Sheela and T. Makesh Kumar
TC-P9	Impact of elephant foot yam variety - Gajendra on the socio-economic upliftment of tribal farmers of Kerala
	S. Sunitha, James George, R.Muthuraj, M.N. Sheela and T. Makesh Kumar

	GENET	SESSI FIC RESOURC	ON II ES OF TUBER CROPS
	October 2	0, 2016	5 pm to 7.30 pm
Chairman	Dr. P.N. Jagadev Dean of Research, Directorate of Research Orissa Univers of Agriculture & Technology Bhubaneswar, Odisha		
Co-Chairi	nan	•	n CAR-National Bureau of Plant Genetic Station, Vellanikkara, KAU PO,
Rapportei	ırs	Dr. Shiry Raichal	Anil and Dr. K. Ramachandra Naik
Lead Lectu	ire GR-LI		and non-conventional breeding or improvement of tuber crops dev
Invited Le	cture GR-I1	Diversity of Western Gha Dr. N. Anil K	
Invited Lea	cture GR-I2	– Future perspectives	
ODAL DD	ECENTRATI	Dr. K. Joseph	i John
GR-O1	Breedin differen M.N. Sł P. Arun,	Breeding for varieties resistant to cassava mosaic disease using different sources of resistance M.N. Sheela, P.V. Abhilash, S. Darshan, B.S. Prakash Krishnan, P. Arun, T. Makesh Kumar, K.I. Asha, C. Mohan, S. Sunitha, N. Krishna Radhika, A. Asha Devi and James George	
GR-O2	attribute	Principal component analysis of agro morphological and yield attributes among cassava (<i>Manihot esculenta</i> Crantz) genotypes B. Babu Rao, P. Ashok, G. Ramanandam and K. Sasikala	
GR-O3	cultivar: linked to	Molecular characterization of sweetpotato (<i>Ipomoea batatas</i> L. Lam) cultivars using simple sequence repeats and screening of markers linked to agronomic traits to genes J. Tarafdar, P. Pratim Sur and N. Chowdhury	

GR-O4	Genetic diversity analysis in <i>Ipomoea</i> using morphological and ISSR markers		
	Shirly Raichal Anil, N. Krishna Radhika, C. Vinaya, V. Lija and B.S. Prakash Krishnan		
GR-O5	Development of nutritionally rich orange flesh sweet potato lines-A way to increase consumer acceptance in Andhra Pradesh P. Ashok, James George and A. Pavani Priyanka		
GR-O6	Genetic variability and character associations in sweet potato (<i>Ipomoea batatas</i> (L.) Lam)		
	V.Tripathi, Chandra Deo, V.P. Pandey and C.N. Ram		
GR-O7	Genetic variability of <i>Nalkachu</i> (<i>Colocasia esculenta</i> var. <i>Stolonifera</i> L.) genotypes		
	R. Mekapotula, S. Alam, Akashi Sarma and P.K. Kalita		
GR-O8	Usefulness of Inter Simple Sequence Repeat markers in differentiating species of important aroids		
	A. Asha Devi, Ann. P. George, N. Krishna Radhika and B.S. Prakash Krishnan		
GR-O9	Genetic variability, heritability, genetic advance and genetic divergence studies in taro (<i>Colocasia esculenta</i> var. <i>Antiquorum</i> (L.) Schott.) germplasm		
	Chandra Deo, D. L. Hauhnar, C.N. Ram and D. Kumar		
GR-O10	Evaluation of traditional genotype diversity of taro (<i>Colocasia esculenta</i> (L.) Schott) and its ethnobotanical uses in Manipur, Northeast India		
	Kh. Swarnalata Devi, K. James Singh and A.K. Bijaya Devi		
GR-O11	Genetic resources of tuber crops in Tripura and tuber crop based tribal foods		
	Biswajit Das and H. Lembisana Devi		
POSTER PRESENTATIONS			
GR-P1	Collection, conservation and evaluation of cassava germplasm accessions for high tuber yield and starch content for industrial exploitations		
	M. Velmurugan, L. Pugalendhi and S. Manickam		

GR-P2	Genetic diversity among released varieties of cassava in India
	P.V. Abhilash, A.S. Shersha, S. Athulya Dev, and M.N. Sheela
GR-P3	Classification and selection of edible cassava lines based on cyanide levels
	P. Ashok, James George, A. Pavani Priyanka and M. Rajasekhar
GR-P4	Molecular genetic diversity analysis of cassava chips line CMR-100 and its open pollinated progenies
	P. V. Keerthana, J. Sreekumar, A. Deepthy Chandran, P. Vidya, Aswathy G. H. Nair, C. Mohan
GR-P5	Identification of markers linked to post-harvest physiological deterioration (PPD) resistance in cassava lines
	A. Deepthy Chandran, M.N. Sheela, J. Sreekumar, P. Vidya, Aswathy G.H. Nair, V. Ambu, P.V. Keerthana and C. Mohan
GR-P6	Identification and validation of SSR and SNP markers related to mosaic disease resistance in cassava (Manihot esculenta Crantz.) V. Ambu, C. Mohan and J. Sreekumar
GR-P7	Computational prediction of novel microRNA in cassava (Manihot esculenta Crantz.)
	B.S. Reshmi, C. Mohan and J. Sreekumar
GR-P8	Screening of newly identified sweet potato genotypes for processing and post harvest qualities
	K. Ramachandra Naik, Prathikha, K. Samreen and D. Shreedhara
GR-P9	Performance of sweet potato entries under MLT in Mewar region of Rajasthan
	R.S. Rathore, Sunil Pareek, S.K. Sharma and James George
GR-P10	Diversity, distribution and management of yam landraces (<i>Dioscorea</i> spp.) in India
	M.N. Sheela, Athira Jyothy, A. Irfa, N. Krishna Radhika, K.I. Asha, C.Visalakshi Chandra, S. Natarajan, B.S. Prakash Krishnan and P.V. Abhilash
GR-P11	Morphological characterization of greater yam (<i>Dioscorea alata</i> L.) landraces in Kerala
	Athira Jyothy, M.N. Sheela, N. Krishna Radhika., A. Irfa, B.S. Prakash Krishnan and P.V. Abhilash

GR-P12	Evaluation of greater yam (<i>Dioscorea alata</i> L) germplasm using multivariate analysis
	K. Mamatha, R. Naga Lakshmi and B.V.K. Bhagavan
GR-P13	Morpho-genetic diversity in taro (<i>Colocasia esculenta</i> var <i>antiquorum</i> L. Schott) and development of blight resistant markers
	R. Mandal, J. Tarafdar, S. Mitra, A. Mukherjee, N. Mandal and A. Mazumder
GR-P14	Standardization of <i>in vitro</i> and <i>in vivo</i> seed germination of true taro seeds
	M.R. Sahoo, M. Dasgupta, T.R. Devi, Y.I. Devi, N. Prakash and S.V. Ngachan
GR-P16	Morphological characterization of some swamp taro (<i>Colocasia</i> esculenta var. Stolonifera L) genotypes
	R. Mekapotula, S. Alam, A. Sarma and P.K. Kalita
GR-P16	Genetic diversity analysis in elephant foot yam accessions using morphological traits
	S. Krishnaraj, A. Asha Devi and Shirly Raichal Anil
GR-P17	Computational prediction of novel microRNA in <i>Amorphophallus</i> paeoniifolius using RNA sequence data.
	G.J. Rekha, T. Makeshkumar and J. Sreekumar
GR-P18	Understanding early defense mechanisms for genetic improvement of chinese potato (<i>Solenostemon rotundifolius</i> Poir., Morton) to osmotic stress
	M.R. Sahoo, T. Roshni Devi, M. Dasgupta, N. Prakash and S.V. Ngachan
GR-P19	Yield performance of tikhur (<i>Curcuma angustifolia</i> Roxb.) genotypes under multilocational trial in Narayanpur district of Chhattisgarh
	M.K. Sahu, D. Shankar, R.R. Kanwar, P.K. Salam and B. Singh
GR-P20	Performance of <i>Costus Speciosus</i> Entries under different agroclimatic zones of Chhattisgarh
	R.R. Kanwar, D. Shankar, D.P. Singh, M.K. Sahu, K. Narayan and D. Mukherjee
GR-P21	Desert Maerua-medicinal root tuber
	J. Phani Kumar and S.Vaishnavi

GR-P22	Survey and collection from Joida Thaluk of Uttara Kannada – an unexplored hot spot of biodiversity of tuber crops K.I. Asha, M.N. Sheela, A. Asha Devi, Shirly Raichal Anil, N. Krishna Radhika and Vivek Hegde
GR-P23	Richness of genetic resources of tuber crops under Konkan region N.V. Mhaskar, P.S. Gudadhe, R.P. Goriwale, B.R. Salvi and U.V. Mahadkar
GR-P24	Conservation of genetic resources of tuber crops for prosperity N.V. Mhaskar, James George and M.N. Sheela
GR-P25	Varietal improvement in tropical tuber crops at Dapoli (Maharashtra) S. Pradnya, R.P. Gudadhe, Goriwale, N.V. Mhaskar, R.G. Khandekar, B.R. Salvi, D.M. Mahale, U.V. Mahadka and James George
GR-P26	Novel technologies for mining resistance in tropical tuber crops Vishnu S. Nath, B. Shyni, M.L. Jeeva and S.S. Veena
GR-P27	Gene prospecting in tuber crops for angiogenic effects N. Krishna Radhika, M.N. Sheela, K.I. Asha, A. Shirly Raichal and A. Asha Devi
GR-P28	Exploration and popularization of under-exploited minor tuber crops for food and nutritional security in Karnataka D.L. Maheswar, V. Nachegouda, K. Ramchandra Naik, Pushpa Bharathi, M. Divya and D. Sridhar

SESSION III YOUNG SCIENTIST AWARD PRESENTATIONS

Oct	tober 21, 2016 8.30 am to 11.30 am
Session Code	Title and Authors
YS-1	Collection, conservation and evaluation of sweet potato germplasm accessions for high tuber yield and carotene content
	P.R. Kamalkumaran
YS-2	Genetic variability and inheritance studies in cassava f_1 seedlings for cassava mosaic disease resistance
	S. Darshan, M.N. Sheela, K. Arya, Visalakshi Chandra, Vivek Hegde and P.V. Abhilash
YS-3	Mining of resistance genes associated with anthracnose infection in greater yam (<i>Dioscorea alata</i> L.)
	G. Saranya, S. Vishnu Nath, M.L. Jeeva and T. Makeshkumar
YS-4	Site specific nutrient management practices for balanced fertilization in cassava on Red non Calcareous soil (Typic Rhodustalf soil)
	M. Velmurugan, L. Pugalendhi and S. Manickam
YS-5	Soil test crop response based ipns on cassava in red sandy loam soil (typic rhodustalf) of yethapur under irrigated condition for technological empowerment and sustainable livelihood of cassava grower
	S. Suganya and S. Manickam
YS-6	Strategies to optimise the tuber crops based cropping patterns in tribal areas to ensure livelihood security
	M.R. Indu
YS-7	Piriformospora indica-A cultivable endophyte for growth promotion and disease management in taro
	P. Lakshmipriya, Vishnu S. Nath, S.S.Veena, K.N. Anith, J Sreekumar and M.L. Jeeva

YS-8	Characterization of <i>Bemisia tabaci</i> (Gennadius) (Hemiptera: Aleyrodidae) for genetic variability in cassava E.R. Harish, Mani Chellappan, T. Makesh Kumar and M.T. Ranjith
YS-9	Characterization and identification of genotypes for tolerance to post harvest physiological deterioration in cassava C. Visalakshi Chandra, M.N. Sheela, Sarvananan Raju, C. Mohan, Vivek Hegde, S. Darshan and Ambu Vijayan
YS-10	Molecular phylogeography of cassava mosaic viruses in Kerala J.T. Jayakrishnan and T. Makeshkumar
YS-11	Standardization of virus inoculation method for cassava mosaic disease Geethu S. Nair and T. Makesh Kumar
YS-12	Manihot esculenta Crantz: A potential source for mining insecticidal molecules for the management of Sitophilus oryzae L. In stored wheat grain (<i>Triticum aestivum L.</i>) V.K. Vikas, C.A. Jayaprakas, M. Sivasamy, G Ajesh, P. Sampath Kumar and L.S. Rajeswari
YS-13	Effect of ultrasound and cellulase pre-treatment on yield and properties of taro starch Nandan Sit
YS-14	Production and evaluation of functional cookies using unexploited <i>curcuma angustifolia</i> starch with millet and pulses for tribal communities Namrata Ankush Giri, Anjudas, M.S. Sajeev, J.T. Sheriff and C. Pradeepika
YS-15	Anthocyanin rich greater yam and sweet potato: nature's promising nutraceuticals R.S. Renjith, V.R.Vishnu, M.N. Sheela, Shirly Raichal Anil, J. Sreekumar and A.N. Jyothi

YS-16 Phytochemical analysis of phe potato (<i>Plectranthus rotundifo</i> V.R. Vishnu, R.S. Renjith, G.	
YS-17 Accelerating tuber crops techn security of tribal population of	nologies for food and nutritional
YS-18 Synthetic seeds in Cassava (M Vivek Hegde, T. Makeshkuma A.V.V. Koundiniya and S. Dar	r, M.N. Sheela, C. Visalakshi Chandra,

SESSION IV SUSTAINABLE MANAGEMENT OF TUBER CROPS FOR LIVELIHOOD SECURITY 11.45 am to 2 pm October 21, 2016 Chairman Dr. George V. Thomas Emeritus ScientistCouncil for Food Research and Development Konni, Pathanamthitta-689692, Kerala & Director (Retd), Central Plantation Crops Research Institute, Kudlu, Kasragod-671124, Kerala Co-Chairman Dr. Jacob John Professor and Head Cropping System Research Centre, Karamana, Thiruvananthaapuram, -695 002, Kerala **Rapporteurs** Dr. M. Nedunchezhiyan and Dr. M. Velmurugan Lead Lecture SM-L1 Resilient and sustainable tuber crop production in India Dr. Ch. Srinivasa Rao Invited Lecture SM-I1 Tuber crops – A prominent component in integrated farming system Dr. Jacob John Invited Lecture SM-I2 Dr. H.B. Babalad Professor, Department of Agronomy, College of Agriculture, Dharwad, University of Agricultural Sciences, Dharward, Dharwad-580 005 **ORAL PRESENTATIONS** Session Code Title and Authors Is organic production sustainable? Insights from tuber crops SM-O1 G. Suja, A.N. Jyothi, V.S. Santhosh Mithra and J. Sreekumar Nutrient use efficient genotypes of cassava: A good alternative for SM-O2 tribal livelihood for healthy sustenance K. Susan John, M.N. Sheela., S.U. Shanida Beegum, G. Suja and V Ravi SM-O3 Tuber crop based farming system: An approach to boost up livelihood of marginal farmers Bijit Kr. Saud, S. Alam, James George, G.N. Hajarika, Madhumita Choudhury Talukdar, U. Kotoky and B. Gogoi

SM-O4	Low cost traditional cassava starch solid waste (thippi) composting: A possible strategy for organic nutrient management and economic security for tribal farmers S. Chithra, K. Susan John and J. Sreekumar
SM-O5	Effect of methods of planting and nutrient management on yield and yield attributes of rice-cassava intercropped with groundnut cropping system V.P. Vipitha and P. Babu Mathew
SM-O6	Photosynthetic response of sweet potato to elevated carbondioxide V. Ravi, R. Saravanan, G. Byju and James George
SM-O7	Effect of macro and micronutrients on the growth and yield of sweet potato B.K.M. Lakshmi, D. Anitha Kumari and M. Vijaya
SM-O8	Effect of weed management practices on weed dynamics, yield and economics of sweet potato (<i>Ipomoea batatas</i> L.) R.S. Singh, P.P. Singh and A. Narayan
SM-O9	Quality planting material production of elephant foot yam through farmers participatory approach in the tribal belts of Kerala S. Sunitha, James George, R. Muthuraj, M.N. Sheela and T. Makeshkumar
SM-O10	Effect of growth regulators and chemical treatments on dormancy breaking in elephant foot yam (<i>Amorphophallus paeoniifolius</i> (Dennst.) Nicolson) R. Muthuraj, James George, S. Sunitha and V. Ravi
SM-O11	Nutrient customization for elephant foot yam intercropped in coconut gardens for the two AEU's of Kerala P.S. Anju, K. Susan John, Subhendu Bhadraray, G. Suja, Jeena Mathew, K.M. Nair, S. Sunitha, S.S. Veena, B.R. Renjith and S.R. Monu
SM-O12	Performance of elephant foot yam variety 'Palam Zimikand-1' under low hill conditions of Himachal Pradesh Ravinder Singh, K.S. Verma and Reena Kaushal
SM-O13	Effect of tillage system, soil conditioners and nutrient management on cormel quality of tannia (<i>Xanthosoma sagittifolium</i> (L.) Schott.) Atul Jayapal, O.K. Swadija and V.S. Anju

SM-O14	Influence of different intercrops as live stakes on the growth and yield of greater yam (<i>Dioscorea alata</i> L.) under Godavari alluvial soils of Andhra Pradesh
	K. Mamatha, R. Naga Lakshmi and B.V.K. Bhagavan
SM-O15	Organic management of Chinese potato (<i>Plectranthus rotundifolius</i>): Safe and sustainable alternative Rakhi K. Raj, C. Lintu Maria and G. Suja
G) f O 1 c	
SM-O16	Effect of fertilizer levels on yield potential of tuber crops intercropped in mango orchardK.
	Ramachandra Naik, D. Sreedhar, T.B. Allolli and Soumya Shetty
POSTER P	RESENTATIONS
SM-P1	Effect of tuber and spice crops intercropping system on yield, economics and soil fertility in arecanut based cropping system
	N.V. Mhaskar, A.A. Dademal, L.S. Chavan and U.V. Mahadkar
SM-P2	Defoliation of cassava leaves for eri silk worm rearing and its impact on tuber yield
	Bijit Kr. Saud, S. Alam, L. Dutta, B.D. Narzary and P. Bora
SM-P3	Current and future climate suitability of cassava in major growing environments of India
	R. Shiny and G. Byju
SM-P4	Response of cassava under integrated soil water and nutrient conservation measures in hill soils
	V. Ramesh, C.S. Ravindran, G. Byju and J. Sreekumar
SM-P5	Phenology of cassava (<i>Manihot esculenta</i> Crantz) under humid tropical conditions of Kerala
	S. Haripriya, S. Sunitha, James George and V.S. Santhosh Mithra
SM-P6	Quality planting material production of cassava through farmers participatory approach in the Attapadi and Wayanad tribal area of Kerala
	R. Muthuraj, James George, S. Sunitha, M.N. Sheela and T. Makesh Kumar
SM-P7	Performance of short-duration cassava (<i>Manihot esculenta</i> Crantz.) varieties under Manipur Condition
	K. James Singh, Kh. Swarnalata Devi, Momoko Thokchom and A.K. Bijaya Devi

SM-P8	Influence of graded levels of potassium and time of application on tuber yield and starch content in cassava S. Suganya and S. Manickam
SM-P9	Potassium availability, uptake and economics as influenced by different levels of potassium in cassava S. Suganya and S. Manickam
SM-P10	Effect of weed management practices in cassava on the growth, yield and weed control efficiency M. Velmurugan, L. Pugalendhi and S. Manickam
SM-P11	Demonstration of integrated crop management practices in tapioca M. Malarkodi and M. Ravi
SM-P12	Validation of organic production technologies in cassava and yams intercropped in a coconut plantation C. Lintu Maria, Rakhi K. Raj, R. Surekha, G. Suja and P. Subramanian
SM-P13	Performance of orange-fleshed sweet potato varieties under rainfed situation of Karnataka K. Ramachandra Naik, D. Sreedhar, Pratiksha, K. Samreen and Soumya Shetty
SM-P14	Geo-referenced characterization of organic farmers in Thiruvananthapuram, Kerala C.R. Neeraja, G. Suja and R.S. Anjana Babu
SM-P15	Tribal ecosystem conservation through nutrient best management practices: Experience in tuber crops under coconut intercropping G. Suja, K. Susan John, P.S. Anju, Jeena Mathew, K.M. Nair, S. Sunitha, S.S. Veena, B. R. Renjit and S.R.Monu
SM-P16	Standardization of spacing and size of planting materials of elephant foot yam as an intercrop under coconut garden P.K. Salam, Beena Singh, D.S. Ram, K.P. Singh and Rajesh Kumar Patel
SM-P17	Site specific nutrient management practices in elephant foot yam (<i>Amorphophallus paeoniifolius</i> (Dennst.) Nicolson) under Coimbatore condition P.R. Kamalkumaran, T. Arumugam and R. Sujatha

SM-P18	Effect of organic sources of nutrients on the growth and yield of elephant foot yam (<i>Amorphophallus paeoniifolius</i> (Dennst.) Nicolson) cv. Gajendra under Jharkhand condition S. Sengupta, H.C. Lal, Binay Kumar, Arun Kumar Tiwary and K.K. Jha
SM-P19	Fertigation in elephant foot yam cv. Gajendra under coastal alluviums of Andhra Pradesh R. Naga Lakshmi, K. Mamatha, B.V.K. Bhagavan, Padma and G.N. Murthy
SM-P20	Effect of herbicides on the growth and yield of elephant foot yam (Amorphophallus paeoniifolius) cv. Gajendra R. Naga Lakshmi, K. Mamatha, B.V.K Bhagavan and M.M. Naidu
SM-P21	Conservation agriculture in banana + elephant foot yam system K. Remya and G. Suja
SM-P22	Effect of intercropping on yield attributes of taro/arvi (<i>Colocasia esculenta</i> Schott.) cv. Mukhi Pan and assessment of yield advantage under the sloppy foot hills of Imphal East Momoko Thokchom, K. James Singh, Ravi Kiran Thirumdasu and A.K. Bijaya Devi
SM-P23	Effect of leafy vegetables as intercrops on the yield of summer <i>Colocasia</i> under Bastar plateau of Chhattisgarh Deo Shankar, R.R. Kanwar, A.K. Thakur, R.S. Netam and A.K. Gupta
SM-P24	Seed village programme in quality planting material production of greater yam for sustenance of tribal communities in Kerala R. Muthuraj, James George, S. Sunitha, M.N. Sheela and T. Makeshkumar
SM-P25	Impact of improved varieties of greater yam on the socio-economic upliftment of tribal farmers of Attappadi region and Wyanad district of Kerala S. Sunitha, James George, R. Muthuraj, M.N. Sheela and T. Makeshkumar
SM-P26	Uptake of nutrients and tuber quality of coleus as influenced by date of planting and nutrient management V.S. Anju, O.K. Swadija and Atul Jayapal

Method for leaf area estimation in yam bean (<i>Pachyrrhizus erosus</i> L.). J. Suresh Kumar, Sanket J. More, V. Ravi, G. Byju and James George
Tuber crop cultivation in Mewar region of Rajasthan: Opportunities and challenges R.S. Rathore, Sunil Pareek, G.S. Ameta and James George
INM a potential tool for increasing the production of tuber crops and soil fertility in tribal areas. K.D. Desai, K. Navya, Shet Sachin Gautamkumar and N.D.Vinay
Performance of tropical sugar beet cultivars in intercropping with sugarcane at different row proportions S. Vishwanatha, S.M. Hiremath, K.R. Naik and P.L. Patil
Effect of sources of nitrogen and liquid manures on the growth, yield and quality of tropical sugar beet S. Vishwanatha, S.M. Hiremath, B.T. Nadagouda, P.L. Patil and K.R. Naik

SESSION V PLANT PROTECTION: CONCERNS AND CARE			
O	ctober 21, 2016	3.30 pm to 5.30 pm	
Chairman	Directorl	Chakrabarti CAR-Central Potato Research Shimla-171001, Himachal Pradesh	
Co-Chairma	ICAR-Na	Tani ational Bureau of Agriculturally Important esourcesBangalore- 560 024, Karnataka	
Rapporteurs	Dr. E.R.	Harish and Dr. J. Tarafdar	
Lead Lecture	PP-L1 Virus diseases Dr. S.K. Chakr	of tuber crops and their management abarti	
Invited Lectu	re PP-I1 Invasive insect Dr. M. Mani	pests and their management on tuber crops	
Invited Lectu	ure PP-I2 Dr. C.K. Peeth Director of Res	ambaran search (Retd.) KAU, Thrissur	
ORAL PRES	SENTATIONS		
Session Code	e Title :	and Authors	
PP-O1	Progress and prospects S.S. Veena, R.S. Misra	of collar rot management in elephant foot yam and M.L. Jeeva	
PP-O2	•	nose/die-back caused by <i>Colletotrichum</i> ter yam (<i>Dioscorea alata</i> L.)	
	M.L. Jeeva, S.S. Veena,	M.N. Sheela, A.N. Jyothi and J. Sreekumar	
PP-O3	isolated from cow dung stimulation of yam (<i>Dic</i>	duction efficacy of <i>Bacillus subtilis</i> strains in controlling postharvest rotting and growth <i>oscorea rotundata</i> L.) minisetts	
	Ramesh C. Ray and M.	•	
PP-O4		anscription loop mediated isothermal detection of <i>Dasheen mosaic virus</i> (DSMV)	
	R. Arutselvan, S. Kama	la and T. Makeshkumar	
PP-O5	Cylas Formicarius (Fab	· ·	
	S.S. Deogharkar, K.V. N	Naik, N.V. Mhaskar and V.S. Desai	

PP-O6	Optimization of media for antimicrobial acitvity of <i>Enterobacter</i> sp. Associated with entomopathogenic nematode <i>Rhabditid</i> sp.
	B.G. Sangeetha, C.A. Jayaprakas, J.R. Jithine and C. Mohandas
POSTER PR	RESENTATIONS
PP-P1	Friable embryogenic callus production and agrobacteriummediated transformation of farmer preferred Indian cassava cultivar- H165
	Dhanya Jayaseelan, Leen N. Abraham, D.C. Deepthi, M. Moushmi and T. Makeshkumar
PP-P2	Characterization of <i>Bemisia tabaci</i> (Gennadius) (Hemiptera: Aleyrodidae) for vector-virus interactions in cassava
	E.R. Harish, Mani Chellappan, T. Makeshkumar and M.T. Ranjith
PP-P3	Effects of cassava based bio pesticide, a synthetic pesticide and a neem based biopesticide on biochemical and haematological parameters of exotic fish <i>Oreochromis niloticus</i> (Nile Tilapia)
	B.S. Ajitha and C.A. Jayaprakas
PP-P4	Screening of sweet potato cultivars against sweet potato weevil, <i>Cylas formicarius</i> (Fabricius)
	S.S. Deogharkar, K.V. Naik, N.V. Mhaskar and A.A. Baikar
PP-P5	Profiling of bacterial communities associated with cassava whitefly, Bemisiatabaci (Gennadius) in different agro ecological zones of Kera la,India
	E. R. Harish, Mani Chellappan, T. Makeshkumar and M.T. Ranjith
PP-P6	Plant parasitic nematodes associated with elephant foot yam in Kerala H. Kesava Kumar, Sirisha Tadigiri and C.A. Jayaprakas
PP-P7	Evaluation of bioactive principles isolated from cassava (<i>Manihotesculenta</i> Crantz) against burrowing nematode: <i>Radopholus similis</i>
	Rashid Pervez, C.A. Jayaprakas and Santhosh J. Eapen
PP-P8	Bioefficacy of cassava based biopesticide against <i>Meloidogyne</i> incognita under in-vitro conditions
	Sirisha Tadigiri, C.A. Jayaprakas and H. Kesava Kumar
PP-P9	Distribution pattern of Spiralling whitefly, <i>Aleurodicus dispersus</i> (Hemiptera: Aleurodidae) in cassava, (<i>Manihotes culenta</i> L) C.A. Jayaprakas, V.S. Abila and Nidhi Dev
	Charles and Andria Dev

SESSION VI INDIGENOUS TECHNICAL KNOWLEDGE AND TRANSFER OF TECHNOLOGY

TRANSFER OF TECHNOLOGY			
Octo	ber 22, 2016	9 am to 11 am	
Chairman	Tuber Crops Re	araman xtension and Social Sciences, ICAR-Central search Institute, Sreekaryam, uram-695 017, Kerala	
Co-Chairman	· ·	ef for E-Learning, IT-BT Complex, Kerala v, Thrissur-680656, Kerala	
Rapporteurs	Dr. P.S. Sivaku	mar and Dr. S. Alam	
Lead Lecture TT	crops tech	g indigenous technical knowledge to tuber nology generation and transfer antharaman	
Invited Lecture 7	Kerala Ag	Reaching the unreached: Agri-Info-Educational portal Kerala Agricultural University Dr. A.K. Sherief	
Invited Lecture T		askaran (Rtd), KAU, Vellayani, Thiruvananthapuram	
ORAL PRESEN	NTATIONS		
Session Code	Tilte and	Authors	
bi so	otechnology innovation cio- economic study in	perspectives to support the development of n on cassava planting material: A qualitative n Tamil Nadu Rahel Wyss and Karin Zbinden	
		ry lexicon for functional sweet potato pasta	
	S. Sivakumar and Shee		
ec	onomic analysis	disposal of lesser yam at farmers level - an N.V. Mhaskar and J.M. Thalathi	

TT-O4	Analysis of sweet potato value chain and determinants of market options choice in selected districts of Odisha in India
	P. Prakash, A. Kishore, D. Roy and D. Behura
TT-O5	Socioeconomic analysis of cassava production for industrial use in western Tamil Nadu
	K.R. Ashok, A. Giuliani, M. Thilagavathi, S. Varadha Raj, M. Devi and A. Sanjeevi Kumar
TT-O6	Indigenous traditional knowledge on tuber crops in Bihar P.P. Singh, A. Narayanan and R.S. Singh
POSTER I	PRESENTATIONS
TT-P1	Livelihood analysis of tuber crops farmers in Kerala
1111	Sheela Immanuel and P.S. Sivakumar
TT-P2	TOMS: SMS based online marketing system for tuber crops
	V.S. Santhosh Mithra, C.S. Abhinand, Riji Raj and G. Vandana

SESSION VII PROCESSING AND PRODUCT DEVELOPMENT 11.30 am to 3.30 pm October 21, 2016 Chairman Dr. G. Padmaja Emeritus Scientist and Former Head, Division of Crop Utilisation, ICAR-Central Tuber Crops Research Institute, Sreekariyam, Thiruvananthapuram-695 017, Kerala Co-Chairman Dr. K.P. Sudheer Professor & Project Coordinator (Centre of Excellence in Post Harvest Technology) Project Coordinator (Food & Agricultural Process Engineering) Department of Food & Agricultural Process Engineering, KCAET, Kerala Agricultural University, Malappuram- 679 573, Kerala. **Rapporteurs** Dr. A.N. Jyothi and Dr. Surajit Mitra Lead Lecture PD-L1 Technological strategies for diminution of post harvest losses in perishable produce with special reference to tuber crops Dr. S.K. Nanda Invited Lecture PD-I1 Functional foods from tuber crops Dr. G. Padmaja Invited Lecture PD-I2 Food safety management system to enhance food export through improved supply chain management Dr K P Sudheer Invited Lecture PD-I3 Commercialization of agricultural technologies: Innovations in business incubation and start-ups Dr. Manoj. P. Samuel Invited Lecture PD-I4 Shri. M. Rajendran IAS Managing Director, SAGOSERVE, Salem, Tamil Nadu

Invited Lecture PD-I5		Shri. Alex Thomas CEO, Tierra Food India Pvt. Ltd., Adoor			
Invited Lecture PD-I6		Shri. Sreejith T.S. CEO, Environmental Measurements Controls, KP Vallon road, Kadavanthra, Kochi, Kerala 682020			
Invited Lecture PD-I7		Shri. S.P. Rajesh CEO & Managing Director, Spac Starch Products (India) Ltd, Erode, Tamil Nadu			
Invited Lecture PD-I8		Shri. Radhakrishnan MD, Angel Starch & Food Pvt Ltd, Erode, Tamil Nadu			
ORAL PRE	SENTATION	S			
Session Code		Title and Authors			
PD-O1		An overview of cassava processing industries in India J.T. Sheriff and M.S. Sajeev			
PD-O2	1	Development of tuber crop based extrudates S.B. Swami and N.V. Mhaskar			
PD-O3	Pretreatment effect on the composition and ultrastructure of root crop processing residues for enhancing saccharification and fermentation M.G. Mithra and G. Padmaja				
PD-O4	-	Effect of pretreatments on quality of sweet potato chips R. Jeevan, K. Ramachandra Naik and Lakshman Kukanoor			
PD-O5	'Green' particle board from cassava stem using starch as bioadhesive K.V. Mubashir, M.S. Sajeev and A.N. Jyothi				
PD-O6	1	Incorporation of natural pigments into native cassava starch Vishal Tripathi, Chandra Deo, L.S. Rajeswari and C.N. Ram			
PD-O7	Octenyl succinylation as a method for developing slowly digestible starch and resistant starch in stem and root tuber starches R. Remya and A.N. Jyothi				
PD-O8	Alkali pretreatment coupled with non-ionic surfactant effect on the fermentable sugar yield from agricultural residues of cassava N.S. Pooja and G. Padmaja				

PD-O9	Sustainable production and post-harvest management of sweet potato for food and nutrition security				
	Surajit Mitra and J. Tarafdar				
POSTER PRESENTATIONS					
PD-P1	Effects of ozonation on bleaching and rheological properties of cassava starch				
	T. Krishnakumar, Sheriff. J.T and M.S. Sajeev				
PD-P2	A study on the changes in physicochemical properties of starch in cassava tubers of diverse varieties during their development				
	S.S. Gouri Lekshmi and A.N. Jyothi				
PD-P3	Dielectric properties of cassava (<i>Manihot esculenta crantz</i>) tubers and their importance in the biochemical analysis				
	V. Sabarinath, R.J. Jibinraj, M. Kuriakose, N. Sujatha Kumari and J.T. Sheriff				
PD-P4	Development of thermoplastic sheet from cassava starch				
	E. Shalu, M.S. Sajeev, A.N. Jyothi, R. Harikrishnan				
PD-P5	Mechanisation in cassava cultivation in India: Present status and prospects				
	Edwin Benjamin and J.T. Sheriff				
PD-P6	Post-harvest physiological deterioration in cassava				
	B. Babu Rao, R.P. Chaitanya, T. Kranthi Kumar, Ch. Sankaradasu and G. Lakpathi				
PD-P7	Value added products of cassava				
	B. Babu Rao, G. Lakpathi, T. Kranthi Kumar, G. Ramanandam and Ch. Sankaradasu				
PD-P8	Amorphophallus konjac - A new emerging tuber crop				
	Dhawani A. Patel, S.L. Chawla, S.J. More and Maitry Desai				
PD-P9	Biochemical characterization of major wild yam species in Western Ghats				
	Irfa Anwar, M.N. Sheela, K.I. Asha, Athira Jyothy, B.S. Prakash Krishnan and P.V. Abhilash				

PD-P10	Ceropegia species, an endemic medicinal tuberous plant: Ethnomedicine and ethnopharmacology Pradeepika Chintha, Namrata Ankush Giri, J.T. Sheriff, M.S. Sajeev and K. Hanume Gowda
PD-P11	Convenience food from Nol Kachu (<i>Colocasia antiquarum var. stolonifera</i>) and locally available fruits P.K. Borthakor, P. Kalita, S. Alam, P. Dutta and Bhoirab Gogoi
PD-P12	Development of mechanised processing technology to improve recovery of good quality of starch S. Patel, N.K. Mishra, P.S. Pisalkar and D. Khokhar
PD-P13	Techno-incubation centre: The way forward for entrepreneurship development in tuber crops M.S. Sajeev, G. Padmaja, S. Shanavas and J.T. Sheriff
PD-P14	Capacity building of women self help group through training intervention on value addition and product diversification of tuber crops N.V. Mhaskar, N.N. Maskar, P.A. Sawant, S.A.Chavan and R.P. Goriwali
PD-P15	Modified storage methods of cassava (Manihot esculanta Crantz) roots on post-harvest physiological deterioration and root quality Sarvanan Raju, Roy Stephen and V. Ravi

	SESSION PLENARY S				
October 22, 2016 4 pm to 5 pm					
Velcome Address	Dr. C.A. Jayaprakas President, Indian Soc				
Presidential Address	Dr. James George Director, ICAR-CTC	RI			
Guest of honour Shri. M. Rajendran IAS Managing Director, SAGOSERVE Salem, Tamil N					
Presentation of Awar	ds				
Recomendations of th	ne conference				
Vote of thanks	Dr. Santhosh Mithra Secretary, Indian Soc				