

Oral Presentation Schedule

Power and Machinery System - Technical Sessions

PMS1

28 December 2016

Gargi Hall

Session: Power and machinery system 1

Coordinator: Dr. Rajendra Machavaram

Chair: Dr. Surendra Singh

Adjunct Professor, Chief Editor (AET),
ISAE

Co-chair: Ashok G Matani

Associate Professor,
Government College of
Engineering, Amravati

09.45 – 10.05 Hrs	LS1. L P Gite Ergonomics in Indian Agriculture - Retrospect and Prospect
10.05 – 10.25 Hrs	LS2. P K Nag Meeting the Challenges of Occupational Health Services in Farming
10.25 – 10.40 Hrs	OS1. Carolin Rathina kumari Optimization of design and operational parameters of drum seeder for onion
10.40 – 10.55 Hrs	OS2. V B Shambhu Improved technology for extraction of fibres from jute and mesta plants
10.55 – 11.10 Hrs	OS3. V G Arude Design of single locking cotton feeder for double roller gin
11.10 – 11.25 Hrs	OS4. Ajay K Roul Draft prediction of commonly used tillage implements for sandy clay loam soil in India

PMS 2

28 December 2016

Gargi Hall

Session: Student Competitive Session

Coordinator: Dr. Rajendra Machavaram

Chair: Dr. L P Gite

Ex-Project Coordinator
AICRP on Ergonomics and Safety in
Agriculture, CIAE, Bhopal

Co-chair: Prof. P K Nag

RamaKrishna Mission Vivekananda
University, IRDM Centre, Kolkata

16.30 – 16.50 Hrs	LS1. Surendra Singh Status of Farm Machinery Availability and its Impact on Mechanization
16.50 – 17.10 Hrs	LS2. C R Mehta
17.10 – 17.20 Hrs	SL1. Naveen kumar Experimental investigation of noise and back pressure of tractor mufflers
17.20 – 17.30 Hrs	SL2. Manish Patel PTO driven generator with automatic throttle control system for quality power generation and fuel saving
17.30 – 17.40 Hrs	SL3. S Aishwarya Unmanned vehicle and wireless sensor network for monitoring soil and crops

17.40 – 17.50 Hrs	SL4. Naseeb Singh An image segmentation method for cotton balls detection under natural conditions using chromatic aberration
17.50 – 18.00 Hrs	SL5. Ganesh Upadhyay comparative performance evaluation of single acting disc harrow in powered and unpowered mode
18.00 – 18.10 Hrs	SL6. Vikas Paradkar Design and development of robotic arm for handling paper pot seedlings
18.10 – 18.20 Hrs	SL7. Ashish Chaudhary Raw biogas as a future fuel for i.c.engines- a socio-economic development route for farmers in India
18.20 – 18.30 Hrs	SL8. Rajeshwar Sanodiya Development of relationship between ndvi and yield data for maize crop

PMS 3

29 December 2016

Gargi Hall

Session: Power and machinery system 2

Coordinator: Dr. Rajendra Machavaram

Chair: Dr. Jatinder Kishtwaria

Director ICAR - Central Institute for
Women in Agriculture, Bhubaneswar

Co-chair: Vidhu Kampurath P

Professor & Head, Applied
Engineering department, VFSTRU,
Guntur, A.P

09.45 – 10.05 Hrs	LS1. Kanchan K Singh
10.05 – 10.25 Hrs	LS2. Jatinder Kishtwaria Ergonomic analysis of agricultural tools for drudgery reduction of hill farm women
10.25 - 10.40 Hrs	OS1. Vidhu Kampurath P Posture assessment as a measure of work stress during tractor operation
10.40 – 10.55 Hrs	OS2. Anindita Karmakar Biodiesel from neem seed: An alternative solution to energy crisis
10.55 – 11.10 Hrs	OS3. Subrata Kumar Mandal Rotary tiller blade design using specific energy requirement
11.10 – 11.25 Hrs	OS4. Subrata Karmakar Modeling of shear rate effect on dynamic soil-tool interaction

Session: Student Competitive Session**Coordinator: Dr. Rajendra Machavaram****Chair: Prof. K P Pandey**

Former professor, IIT Kharagpur

Co-chair: Raheman H

Professor, IIT Kharagpur

16.30 – 16.40 Hrs	SL1. C M Pareek Electric drive based seed rate control system for precision planter
16.40 – 16.50 Hrs	SL2. Sneha Jha Embedded system for variable rate fertilizer application
16.50 – 17.00 Hrs	SL3. Abhilash Kumar Chandel Sonar sensor predicated automatic spraying system for orchards
17.00 – 17.10 Hrs	SL4. Abhigyan Konwar Cutting energy characteristics of switch grass (<i>Panicum virgatum</i>) with varying oblique angles
17.10 – 17.20 Hrs	SL5. Showkat Rasool A multi-objective design optimization strategy for traction performance improvement of rubber tracked walking tractor
17.20 – 17.30 Hrs	SL6. Jharna Gupta A water treatment derived solid base catalyst for biodiesel production
17.30 – 17.40 Hrs	SL7. Priyabrata Pradhan An economic analysis of a pilot scale biomass pelletisation plant
17.40 – 17.50 Hrs	SL8. Neeraj Kumar Water emulsified diesel and its performance in IC engine
17.50 – 18.00 Hrs	SL9. NRNV Gauripati Rao Nano structured wear resistant coating for reversible cultivator shovels
18.00 – 18.10 Hrs	SL10. Sindhu Bhaskar Design and development of power operated nutmeg sheller
18.10 – 18.20 Hrs	SL11. Rashmi Pant Determination of soil parameter by using electromagnetic sensors: state of the art literature review.
18.20 – 18.30 Hrs	SL12. Harshini S UAV & field robots in agriculture

Session: Power and machinery system 3**Coordinator: Dr. Rajendra Machavaram**

Chair: Dr. Indra Mani Mishra
Head Agril Engg. Division, IARI,
New Delhi**Co-chair: Dr. P K Pranav**
Assistant professor, North Eastern
Regional Institute of Science and
Technology.

09.45 – 10.05 Hrs	LS1. Indramani Mishra
10.05 – 10.25 Hrs	LS2. K N Agrawal
10.25 - 10.40 Hrs	OS1. M D Vora Noise and vibration characteristics of mini and big sized farm tractor in Indian context
11.00 – 11.15 Hrs	OS2. Dr. P K Pranav Computer program to find virtual hitch point for three point linkage of the tractor.
11.15 – 11.30 Hrs	OS3. Rajesh Konda Reddy Implementation of moisture removal monitoring system and modified pi controller in a solar cabinet dryer for drying of chilis
11.30 – 11.45 Hrs	OS4. To be updated
11.45 – 12.00 Hrs	OS5. To be updated

Natural Resource and Engineering Management - Technical Sessions

NREM 1

28 December 2016

Maitreyee Hall

Session: Hydrology and Water Resources

Coordinator: Dr. D. Mailapalli

Chair: Dr. R. C. Srivastava

VC, Dr. Rajendra Prasad
Central Agricultural University, Pusa

Co-chair: Prof. S. Dutta

Head, Civil Engg. Dept.,
IIT Guwahati

09.45 – 10.05Hrs	LS1. Dr. R. C. Srivastava Emerging challenges of agricultural water management research
10.05 – 10.25 Hrs	LS2. Prof. S. Dutta Hyperspectral remote sensing for plot-scale rice agriculture management
10.25 –10.40 Hrs	OS1. Rabindra Kumar Panda Water resource development for improving livelihood of tribal farmers in Plateau Region of Odisha (India)
10.40 – 10.55 Hrs	OS2. Ranu Rani Sethi Integrated water resource management in coastal Odisha – a case study
10.55 – 11.10 Hrs	OS3. V. N. Barai Rainfall erosivity indices for Kolhapur station
11.10 -11.25 Hrs	OS4. Madhumita Das Water resources – quality and utility in sub-urban industrial areas in Odisha

NREM 2

28 December 2016

Maitreyee Hall

Session: Irrigation Water Management

Coordinator: Dr. Ashok Mishra

Chair: Prof. Vinay K. Pandey

Dean, SKCAET, IGKV, Raipur

Co-chair: Mr. A. Kar

Senior Hydrogeologist, CGWB, Kolkata

11.45 – 12.05 Hrs	LS1. Prof. Vinay K. Pandey An agricultural engineering college energies using solar photovoltaic power plant: a case study
12.05 – 12.20 Hrs	OS1. Ramadhar Singh Evaluation of indirect methods for estimating water requirements of salient crops
12.20 – 12.35 Hrs	OS2. Junichiro Takeuchi Effect of capillary radius distribution on hydraulic properties of porous media
12.35 – 12.50 Hrs	OS3. Mohanraj S. An intelligent system to detect cultivable crops by analyzing soil nutrients
12.50 – 13.05 Hrs	OS4. Ram Kumar Sahu Effect of hydrogel application on water holding capacity of soil
13.05– 13.20 Hrs	OS5. Ashok G. Matani Advancement in enhancing water use efficiency with IT applications

NREM 3

29 December 2016

Maitreyee Hall

Session: Micro Irrigation

Coordinator: Dr. D. Mailapalli

Chair: Prof. N. K. Gontia

Dean, CAET, Junagarh Agril. University,
Junagarh

Co-chair: Dr. Ramadhar Singh

Head (Irrigation & Drainage Engg. Div.),
CIAE, Bhopal

09.45 – 10.05 Hrs	LS1. Prof. Masayuki Fujihara, Computational approaches to eco-hydraulics of fishways
10.05 – 10.25 Hrs	LS2. Prof. U. M. Khodke Precision irrigation and fertilizer management through drip irrigation
10.25 – 10.40 Hrs	OS1. Pravukalyan Panigrahi Evaluating drip irrigation in rice-based cropping sequence in eastern India
10.40 – 10.55 Hrs	OS2. S. K. Dingre Studying economic feasibility of drip fertigation in canal command area of semi-arid India
10.55 – 11.10 Hrs	OS3. R. D. Bansod Cauliflower yield estimation, based on depth of water and application uniformity
11.10 – 11.25 Hrs	OS4. R. M. Satasiya Water melon cultivation under mulch and no-mulch condition

NREM 4

29 December 2016

Maitreyee Hall

Session: Student Competitive Session

Coordinator: Dr. D. Mailapalli

Chair: Mr. K. R. Biswas

Regional Director, CGWB, Kolkata

Co-chair: Prof. U. M. Khodke

Principal, CAET, VNMKV, Parbhani

11.45 – 12.05 Hrs	LS1. Mr. K. R. Biswas Accelerated groundwater irrigation vis-à-vis Arsenic pollution in West Bengal: need for eco-friendly management
12.05 – 12.15 Hrs	SL1. Brijesh Kumar Evaluating hydrological uncertainties arising due to DEM resolution: study for the Himalayan river basin
12.15 – 12.25 Hrs	SL2. Pawan S. Wable Estimation of drought return periods using bivariate Copula
12.25 – 12.35 Hrs	SL3. Alpana Dubey Effect of control release fertilizer on nitrogen transformations in rice fields
12.35 – 12.45 Hrs	SL4. C. S. Sharma Complex network-based approach for the analysis of rainfall over eastern India
12.45 – 12.55 Hrs	SL5. Patil Ashish Pravinsin G. Water and nitrogen balance studies of rice crop grown under drainage lysimeters
12.55 – 13.05 Hrs	SL6. Annie Jenifer Groundwater potential assessment in Tiruchirappalli district of Tamil Nadu using Catastrophe method

13.05–13.15 Hrs	SL7. Mridusmita Debnath Fertilizer inputs and corresponding changes in plant nutrient availability in rice cultivated
13.15–13.25 Hrs	SL8. Pradipta Chandra Perspective of precision agricultural technology in lateritic zone: the role of KVKs and farmers' clubs

NREM 5

29 December 2016

Maitreyee Hall

Session: Student Competitive Session

Coordinator: Prof. C. Chatterjee

Chair: Prof. A. P. Mishra

Ex-VC & Dean, CAE, RAU, Pusa

Co-chair: Dr. S. K. Ambast

Director, IIWM, Bhubaneswar

14.30 – 14.50 Hrs	LS1. Prof. N. K. Gontia Water resources management using remote sensing and GIS
14.50 – 15.00 Hrs	SL1. Subhadip Dey Optimized design of automated drip irrigation systems and piping network through computational fluid dynamics methods for savings of water and energy in cultivation of horticultural crops in tropical agro-climatic zones in India.
15.00 – 15.10 Hrs	SL2. Santosh D. T. Influence of different protected cultivation structures on water requirements of winter vegetables
15.10 – 15.20 Hrs	SL3. Pooja Mishra Altitudinal variations of soil physio-chemical properties at a high altitude watershed in Arunachal Himalayan region
15.20 – 15.30 Hrs	SL4. S. Revathi Intelligent controller based forced ventilation for greenhouse using speed control of DC motor
15.30 – 15.40 Hrs	SL5. Vikash Kumar Singh Development of a greenhouse suitable for year round cultivation in subtropical regions of India
15.40 – 15.50 Hrs	SL6. Subhajit Roy Crop evapotranspiration estimation from Landsat-8 data over Kangsabati command area
15.50 – 16.00 Hrs	SL7. Anith Jessy X Flood modeling of Adyar river basin, Chennai, Tamil Nadu, India
16.00 – 16.10 Hrs	SL8. W. R. Singh Effect of climate change on average depletion pattern of a snow-covered watershed in the eastern Himalayan region
16.10 – 16.20 Hrs	SL9. Chitra Shukla Soil hydrology under different tree plantations

Session: Protected Cultivation Structures**Coordinator: Dr. Ashok Mishra****Chair: Prof. Masayuki Fujihara**
Kyoto University, Japan**Co-chair: Prof. K. Srinivas Kumar**
Assoc. Dean (Agril. Structures), PJTS Agril. Univ.

14.30 – 14.50 Hrs	LS1. Mr. Amlan Jyoti Kar Groundwater development in Eastern and North-Eastern India for sustenance of food security
14.50 - 15.05 Hrs	OS1. Shailendra Gadge Canopy spectral modification for enhancing water and fertilizer use efficiency through use of color shading nets: A study for cucumber crop
15.05 – 15.20 Hrs	OS2. Amaresh Sarkar Multi-storey multi-layer stacks protected crop production farms - A review
15.20– 15.35 Hrs	OS3. Rakesh Mohan Shukla Vegetative propagation of the Walnuts in Kashmir valley through plasticulture technology
15.35 – 15.50 Hrs	OS4. K. Sreenivasa Kumar Effect of irrigation and N-fertigation levels on greenhouse grown Tomato in semiarid tropical climate
15.50 – 16.05 Hrs	OS5. K. K. Mahanta Improvement of crop productivity through land shaping and pressurized irrigation in Sundarbans region

Agro Environmental Engineering – Technical sessions

AEE1

29 December 2016

Gargi Hall

Session: Environmental Remediation Technologies

Coordinator: Dr. S Chakraborty

Chair: Dr. N Chattopadhyay

DDGM, Agricultural meteorology division,
IMD

Co-chair: Dr. S Ghosal

Assistant Professor, IIT Kharagpur

09.45 – 10.05 Hrs	LS1. Dr. N Chattopadhyay Combating effect of climate variability and climate change on Indian agriculture through smart climate services
10.05 – 10.20 Hrs	OS1. Ashok Mhaske Application of box-behenken design and response surface methodology for modelling of cod removal from the phytorid STP
10.20 – 10.35 Hrs	OS2. Swati Chakraborty Bioremediation approach of agricultural soil: kolkata wetland area
10.35 – 10.50 Hrs	OS3. Dr. Chandrakant M. H. Performance of used synthetic seawater on growth and survival of larvae of <i>Macrobrachium rosenbergii</i>
10.50 – 11.05 Hrs	OS4. To be updated
11.05 – 11.20 Hrs	OS5. To be updated

AEE 2

29 December 2016

Gargi Hall

Session: Student Competitive Session

Coordinator: Dr. S Chakraborty

Chair: Dr. M K Maity

Associate Professor, IIT Kharagpur

Co-chair: Dr A Mhaske

Associate Professor,

College of Agriculture, Dr. PDKV, Nagpur

11.45 – 11.55 Hrs	SL1. Nirlipta Saha Optimization of gold nano particles biosynthesized from leaf extract of <i>Sweritachirata</i>
11.55 – 12.05 Hrs	SL2. Caleb Pradhan Role of contract farming in food storage in india& prospects of joint venture between farmers and food organisations in setting food banks
12.05 – 12.15 Hrs	SL3. Shreya Bhattacharyya Chemical signaling in <i>Argemoneochroleuca</i> - a threat to Indian biodiversity
12.15 – 12.25 Hrs	SL4. Preetha Bhadra A Smart Detection Method of Aflatoxin Content in Human Blood and Morphometric Evaluation of Abnormalities
12.25 – 13.35 Hrs	SL5. Diplina Paul Sediment microbial fuel cell as an avenue for in situ bioremediation of aquatic sediment: a review
12.35 – 12.45 Hrs	SL6. To be updated
12.45 – 12.55 Hrs	SL7. To be updated
12.55 – 13.05 Hrs	SL8. To be updated
13.05 – 13.15 Hrs	SL9. To be updated
13.15 – 13.25 Hrs	SL10. To be updated

Session: Student Competitive Session**Coordinator: Dr. S Chakraborty****Chair: Dr P Guha**

Associate Professor, IIT Kharagpur

Co-chair: Dr M H ChandrakantAqua-cultural Engineer, CIFE
Mumbai

14.30 – 14.40 Hrs	SL1. Sonu Kumar Challenges in tea (<i>Camellia sinensis</i>) ecosystem due to climatic factors
14.40 – 14.50 Hrs	SL2. Gourav Dhar Bhowmick Energy efficient combined process of microbial fuel cell (MFC) and membrane bioreactor (MBR) for effective treatment of fish processing wastewater
14.50 – 15.00 Hrs	SL3. Kishor Biswas Study on bottom sediment of sewage fed fish farm and its application in tank culture of mono-sex tilapia as an alternative of fertilizer
15.00 – 15.10 Hrs	SL4. Ved Prakash Ranjan Biodegradation of floral waste under aerobic condition
15.10 – 15.20 Hrs	SL5. Ranjana Kumari Molecular characterization of fungi present in stored food grains and analysis of their mycotoxigenic potential
15.20 – 15.30 Hrs	SL5. Jadhav Dipak Ashok Scalable stacked bioelectric toilet microbial fuel cell for treatment of human waste and charging the mobile phone battery
15.30 – 15.40 Hrs	SL6. Moumita Karmakar Green synthesis of silver nanoparticles using fungal strain (<i>Rhizopusoryzae</i> pr7) and evaluation of their anti-bacterial activity
15.40 – 15.50 Hrs	SL7. To be updated
15.50 – 16.00 Hrs	SL8. To be updated
16.00 – 16.10 Hrs	SL9. To be updated
16.10 – 16.20 Hrs	SL10. To be updated

Food and Bioprocess Engineering – Technical Sessions

FBPE 1

28 December 2016

Kalidas Auditorium

Session: Post Harvest Processing

Coordinator: Dr. P S Rao

Chair: Dr. Nawab Ali

EX DDG (Engineering), ICAR, New Delhi

Co-chair: Prof. T K Goswami

Professor, IIT Kharagpur

09.45 – 10.05 Hrs	LS1. Balasubramaniam Non-thermal technologies for food manufacturing: Opportunity to improve health and wellness through minimally processed foods
10.05 – 10.25 Hrs	LS2. Brijesh Tiwari Application of Ultrasound Technology for Clean and Green Production of Valuable Compounds
10.25 – 10.40 Hrs	OS1. Sandeep Mann Cloud storage of food grains in India: An alternative to CAP storage
10.40 – 10.55 Hrs	OS2. Anil Kumar Dixit Entrepreneurship development in food processing: identification and prioritization of constraints
10.55 – 11.10 Hrs	OS3. J P Thakur To extend the shelf life of selected mango varieties by appropriate postharvest treatments and storage studies
11.10 – 11.25 Hrs	OS4. Ranjan Kumar Naik Post-harvest management of flax: problems and machine development

FBPE 2

28 December 2016

Gargi Hall

Session: Instrumental Analysis & Process Engineering

Coordinator: Dr. M Das

Chair: Dr. Balasubramaniam

Professor, Ohio State University, USA

Co-chair: Dr. Brijesh Tiwari

Sr. Research Scientist,
Teagasc, Dublin, Ireland

11.45 – 12.05 Hrs	LS1. C Anandharamakrishnan Current and future prospects of food nanotechnology
12.05 – 12.20 Hrs	OS1. Debandya Mohapatra Fuzzy logic approach for descriptive sensory evaluation of Sorghum flakes
12.20 – 12.35 Hrs	OS2. Prakash Kumar Nayak Process optimization for minimizing residual FFA levels in fried mustard oil
12.35 – 12.50 Hrs	OS3. Raghavendra Sahu Advance technologies emerging for processing of milk and milk products
12.50 – 13.05 Hrs	OS4. Rewa Kulsreshta Frying kinetics of khoa-jalebi vis-à-vis quality
13.05 – 13.20 Hrs	OS5. To be updated

FBPE 3**28 December 2016****Kalidas Auditorium****Session: Food Process Development****Coordinator: Dr. P S Rao****Chair: Dr. Ashish K Singh**Head, Dairy Engineering, NDRI
Karnal**Co-chair: Dr. Sinija V R**Head, Post-Harvest Engineering,
IICPT, Thanjavur

11.45 – 12.05 Hrs	LS1. Nawab Ali Emerging technologies in agricultural and food engineering
12.05 – 12.25 Hrs	LS2. R Vishwanathan Quality assessment of fermentation of cocoa beans as influenced by storage of cocoa pods using FT-NIR
12.25 – 12.40 Hrs	OS1. Divyakanta Seth Optimization of micro encapsulation of probiotic in carambola fruit juice by spray drying
12.40 – 12.55 Hrs	OS2. Sajeev M S Development of biodegradable films from enzyme modified cassava starch
12.55 – 13.10 Hrs	OS3. Jahangir Badshah A review of developments in improved technologies for market oriented production of indigenous milk products
13.10 – 13.25 Hrs	OS4. Raj Kumar Duary Gallic acid functionalized starch: in silico studies against alpha amylase, slow digestibility, molecular structure and antioxidant activity

FBPE 4**28 December 2016****Maitreyee Hall****Session: Student Competitive Session****Coordinator: Prof. M Das****Chair: Dr. R Vishwanathan**Head, Food & Agril. Process Engg.,
TNAU, Coimbatore**Co-chair: Dr. P S Rao**

Associate Professor, IIT Kharagpur

16.30 – 16.50 Hrs	LS1. J P Pandey Emerging technologies in food processing
16.50 – 17.10 Hrs	LS2. Shadanand Patel Convective drying characteristics and quality of dried turmeric slices
17.10 – 17.20 Hrs	SL1. Vivek Kumar Effective moisture diffusivity of green bell pepper of undergoing vacuum assisted microwave drying
17.20 – 17.30 Hrs	SL2. Ramanuja Vinayak J A study on centralized control scheme for a class of process applications
17.30 – 17.40 Hrs	SL3. Ruchira Mitra Stability studie of bacterial β Cr ptoxanthin for use as a nutritional supplement
17.40 – 17.50 Hrs	SL4. Soumik Banerjee Precipitation and chromatography for purification of debittering enzyme by aspergillusnigercim 612
17.50 – 18.00 Hrs	SL5. Jnyana Ranjan Pati Experimental and Compare Study of Wheat Drying in Rotating Fluidized Bed in a Static Geometry (RFB-SG) and Conventional Bubbling Fluidized Bed (BFB) Dryer

18.00 – 18.10 Hrs	SL6. Molla Ramizur Rahman Food security in India: understanding technological impact and effect on farmers
18.10 – 18.20 Hrs	SL7. Suradeep Basak Use of dose-response curves to estimate the antifungal efficacy of <i>Piper betle</i> L. Essential oil on mycelial growth inhibition of food spoilage fungi
18.20 – 18.30 Hrs	SL8. To be updated

FBPE 5 **28 December 2016** **Kalidas Auditorium**

Session: Student Competitive Session

Coordinator: Dr. T K Goswani

Chair: Dr. A K Agrawal

Head, Dairy Engineering, CKV, Raipur

Co-chair: Dr. Pradyuman Kumar

Professor, SLIET, Longowal

16.30 – 16.50 Hrs	LS1. Narendra G Shah Health drink for mal-nourished children - properties and potential
16.50 – 17.00 Hrs	SL1. Pramod K Prabhakar Total internal reflection (TIR) based optical bio-sensors: an analytical tool for food quality evaluation
17.00 – 17.10 Hrs	SL2. Deepika Shende Effect of thickness of mango puree on refractance window drying to make mango leather
17.10 – 17.20 Hrs	SL3. Gayatri Mishra Development of rapid method for determination of insect infestation in wheat using near infra red spectroscopy
17.20 – 17.30 Hrs	SL4. Barun Kumar Yadav Microwave drying characteristics of green tea shoots and optimization of power level of microwave dryer for drying
17.30 – 18.40 Hrs	SL5. Indira Dey Paul Effect of microwave-convective hot air and vacuum drying on total phenolics content and antioxidant activity of jamun seed powder
18.40 – 18.50 Hrs	SL6. Sohini Ray Use of factorial experimental design for analyzing the effect of storage on encapsulated chilli powder
18.50 – 18.00 Hrs	SL7. Yashmina Jan Formulation of whey based jamun ice candies and its therapeutic effect
18.00 – 18.10 Hrs	SL8. Abhishek Shukla Industrial manufacturing of fruit candy: optimization of overall process
18.10 – 18.20 Hrs	SL9. To be updated

FBPE 6

29 December 2016

Kalidas Auditorium

Session: Emerging Technologies

Coordinator: Dr. Jayeeta Mitra

Chair: Dr. Anil Kumar Dixit

Principal Scientist, ICAR-CIPHET,
Ludhiana

Co-chair: Dr. Shiby Varghese K

Sr. Scientist, Defence Food
Research Laboratory, Mysuru

09.45 – 10.05 Hrs	LS1. A K Agrawal Vaccum deaeration technology: application in processing of milk and milk products
10.05 – 10.20 Hrs	OS1. K Shiby Varghese Value added products based on avocado: process technology and quality evaluation
10.20 – 10.35 Hrs	OS2. D K Antala Preparation of guava powder by osmotic-air dehydration
10.35 – 10.50 Hrs	OS3. Brijesh Srivastava Development of farm level raotary drum saturated steam generator and study of heat transfer for thermal inactivation of enzyme during potato blanching
10.50 – 11.05 Hrs	OS4. Vasudha Sharma Optimization of fermentation of vegetable juice by <i>Lactobacillus plantarum</i>

FBPE 7

29 December 2016

Kalidas Auditorium

Session: Functional Foods

Coordinator: Dr. Jayeeta Mitra

Chair: Dr. Sudhir Uprit

Dean, College of Dairy Tech, CKV,
Raipur

Co-chair: Dr. Manisha Guha

Sr. Principal Scientist, CFTRI,
Mysuru

11.45 – 12.05 Hrs	LS1. Pradyuman Kumar Properties of honey fortified set yoghurt (HFSY) produced by co-fermentation of <i>Streptococcus thermophilus</i> and <i>Lactobacillus bulgaricus</i>
12.05 – 12.20 Hrs	OS1. Himanish Das Innovation and technology in indian traditional foods – opportunity, challenges and way forward
12.20 – 12.35 Hrs	OS2. P P Gothwal Health based functional foods and nutraceutical from fruits and vegetables: current scenario and future prospectus
12.35 – 12. 50 Hrs	OS3. Apurba Giri Development of fiber enriched hypocholesterolemic cheese spread
12.50 – 13.05 Hrs	OS4. Amit Arora Nutraceuticals from horticultural processing waste
13.05 – 13.20 Hrs	OS5. Shefali Bhardwaj Development of gluten-free low GI chicken pasta

FBPE 8**29 December 2016****V₁ Hall****Session: Product development & Process Modeling****Coordinator: Dr. S L Shrivastava****Chair: Dr. Surya Nath**Professor Emiretus, RK University,
Rajkot**Co-chair: Dr. Brijesh Srivastava**Head, Department of Food
Engineering & Technology,
Tezpur University

11.45 – 12.05 Hrs	LS1. Sudhir Uprit Advance technologies emerging for processing of milk and milk products
12.05 – 12.25 Hrs	LS2. Manisha Guha Technological intervention to garden cress seed – an unexplored health grain
12.25 – 12.40 Hrs	OS1. Sinija V R Non-destructive detection of internal quality of selected fruits and vegetables using acoustic resonance technique
12.40 – 12.55 Hrs	OS2. Ipsita Das Development of a two staged microwave-membrane process for astringency removal from cashew apple
12.55 – 13.10 Hrs	OS3. Paramita Bhattacharjee Design of antioxidant-rich ready-to-serve beverages
13.10 – 13.25 Hrs	OS4. Soumitra Banerjee Numerical investigation of heat and mass transfer during infrared conditioning of cashew kernels

FBPE 9**29 December 2016****Kalidas Auditorium****Session: Non-Thermal Technologies****Coordinator: Dr. P P Srivastav****Chair: Dr. S K Khare**Professor, Department of
Chemistry, IIT Delhi**Co-chair: Dr. S L Shrivastava**Associate Professor, IIT
Kharagpur

14.30 – 14.50 Hrs	LS1. Navin K Rastogi Dense phase carbon dioxide: A non-thermal processing technique for food processing
14.50 – 15.10 Hrs	LS2. Smita Khodke Optimization of process conditions for the development of mango foam
15.10 – 15.25 Hrs	OS1. Snehasis Chakraborty Modeling the high pressure inactivation kinetics of pectinmethylesterase in pineapple puree
15.25 – 15.40 Hrs	OS2. T Krishnakumar Optimization of ultrasound-assisted extraction of starch from Cassava by response surface methodology
15.40 – 15.55 Hrs	OS3. Harsh P Sharma Role of steaming, enzyme added extraction and juice extraction techniques in juice yield and total soluble solids of wood apple (<i>Feronia limonia</i>) juice
15.55 – 16.10 Hrs	OS4. Paresh R Davara Application of cation exchange resins for the extraction of pectin from mango peel

Session: Student Competitive Session**Coordinator: Dr. S L Shrivastava****Chair: Dr. Sadanand Patel**

Professor, CAET, IGKV Raipur

Co-Chair: Dr. Narendra G Shah

Professor, IIT Mumbai

16.30 – 16.50 Hrs	LS1. S K khare Lactobacillus brevis mediated bioprocesses for conversion of agro-industrial wastes into high value products
16.50 – 17.00 Hrs	SL1. Chandrakant Dalbhagat Performance evaluation of new plate heat exchanger of higher capacity
17.00 – 17.10 Hrs	SL2. Shubhangi Use of ozone as a non-chemical fumigant in rice and wheat grains to control stored insect pests
17.10 – 17.20 Hrs	SL3. Mayur Sanjiv Nilawar Design and development of integrated drying system for perishables
17.20 – 17.30 Hrs	SL4. Debasmitha Pathak Study on functional and rheological characteristics of gluten free flour and dough system using raw and ripe mango peel in combination
17.30 – 17.40 Hrs	SL5. Sunil Manohar Behera Physicochemical, Microstructural and Rheological Study of Sprouted Wheat (<i>Triticumaestivum</i> L.) Flour for Bread Baking
17.40 – 17.50 Hrs	SL6. Joyjit Modeled adsorption efficacy indicative of bacteriophage fitness
17.50 – 18.00 Hrs	SL7. Puja Priyadarshini Nayak Amorphous silica content determination in rice husk waste
18.00 – 18.10 Hrs	SL8. Chandani Sen A comparative study of glutaraldehyde and citric acid as a cross-linking agent in starch-polyvinyl alcohol based biodegradable film
18.10 – 18.20 Hrs	SL9. Shikha Ojha Ultrasound technology for modulating microbial activity
18.20 – 18.30 Hrs	To be updated

Session: Student Competitive Session**Coordinator: Dr. P P Srivastav****Chair: Dr. Pitam Chandra**Head, Department of Food
Engineering, NIFTEM, Sonapat**Co-chair: Dr. Jahangir Badshah**Head, Dairy Engineering,
SGIDT, Patna

16.30 – 16.50 Hrs	LS1. Surya Nath Challenges to agricultural engineers in 21 st century relating to food security in India
16.50 – 17.00 Hrs	SL1. Anupriya Mazumder Extraction of high value bioactive components from chlorella vulgaris using super critical fluid extraction technology
17.00 – 17.10 Hrs	SL2. Harshala Patil Experimental study on exploring microwaves in disinfestation of dry (Sesame seeds) and drying of wet (chiku flakes) food commodities
17.10 – 17.20 Hrs	SL3. Dinesha B Standardization and model validation of supercritical carbon dioxide extraction process for moringa (<i>Moringa oleifera</i> Lam.) seed kernel oil

17.20 – 17.30 Hrs	SL4. Sheikh Bazila Naseer By-product utilization of almond press cake in food fortification by development of extruded product
17.30 – 17.40 Hrs	SL5. Sowmiya S Non-destructive testing to detect the quality of coconut using acoustic technique
17.40 – 17.50 Hrs	SL6. Aprajeeta Jha Shrinkage and its influence on heat and mass transfer during drying of carrot
17.50 – 18.00 Hrs	SL7. Gurveer Kaur Drying characteristics of mango pulp and effect of concentration on drying using refractance window technique
18.00 – 18.10 Hrs	SL8. Gopal Kumar Process parameters optimization for continuous kheer making machine
18.10 – 18.20 Hrs	SL9. To be updated
18.20 – 18.30 Hrs	SL10. To be updated

FBPE 12

30 December 2016

Kalidas Auditorium

Session: Food Process Machinery

Coordinator: Dr. P Punam Tripathy

Chair: Prof. Suresh Prasad

Former Professor, IIT Kharagpur

Co-chair: Dr. P P Srivastav

Associate Professor, IIT
Kharagpur

09.45 – 10.05 Hrs	LS1. Pitam Chandra Enabling mechanism for postharvest management and value addition in production catchments
10.05 – 10.20 Hrs	OS1. Rama Chandra Pradhan Evaluation of a machine performance on de-shelling of Sal (<i>Shorea robusta</i>) seeds
10.20 – 10.35 Hrs	OS2. Amit Baran Das Effect of vacuum assisted extrusion cooking of phytochemical properties of rice based breakfast cereal
10.35 – 10.50 Hrs	OS3. Mukesh N Dabhi Design, development and testing of sapota cleaner
11.00 – 11.15 Hrs	OS4. Ajay K Gupta Modification and performance evaluation of green chickpea pod stripping cum shelling machine
11.15 – 11.30 Hrs	OS5. Anupam Roy Inorganic vs organic nanoparticles: The controversial battle in food application
11.30 – 11.45 Hrs	OS5. To be updated

ABBREVIATIONS USED

PMS	–	Power and Machinery System
NREM	–	Natural Resources Engineering and Management
AEE	–	Agro Environmental Engineering
FBPE	–	Food and Bio Process Engineering
LS	–	Lead Speaker
OS	–	Oral Presenter
SL	–	Student Presenter

- **Student presentations shall be evaluated by panel of Judges and the best presentation in each session shall be awarded the best student presentation certificate & prize.**