

10th International Conference on Controlled Atmosphere and Fumigation in Stored Products
November 6-11, 2016, New Delhi, India

POSTER PROGRAMME

Poster ID	Board No.	Presenter & Title
Session 1-Biological responses organisms to CA and fumigants		
1P-1	1.	Christ D Gaseous ozone fungi growth inhibition during controlled storage of naturally contaminated maize (<i>Zea mays</i>) grains
1P-2	2.	Arulprakash R Management of <i>Callosobruchus</i> sp. in green gram (<i>Vigna radiate</i>) using Carbon dioxide (CO ₂) treatment
1P-3	3.	Ajaykumara K M Effect of carbon dioxide on <i>Rhyzopertha dominica</i> and seed quality parameters of maize (<i>Zea mays</i>)
1P-4	4.	Mohapatra D Strategies for control of fungal invasion in stored food grains
1P-5	5.	Sotiroudas B Effect of short exposures to phosphine under low pressure on major stored-product insects
1P-6	6.	Rajendra Prasad S Seed protection through controlled atmosphere storage
1P-7	7.	Padmasri A Effect of carbon dioxide against angoumois grain moth, <i>Sitotroga cerealella</i> (Olivier) in paddy (<i>Oryza sativa</i>)

1P-8	8.	Gotyal B S Fumigant Toxicity of Essential Oil from <i>Lantana camara</i> Against Almond Moth, <i>Cadra cautella</i>
Session 2 - Quality preservation, safety and protection of the environment		
2P-1	9.	Boakye S Residual levels of some pesticides in cocoa beans (<i>Theobroma cacao</i>) from Ashanti and Brong Ahafo regions of Ghana
2P-2	10.	Gurummenakshi G Effect of grain protectants on the storage quality of brown rice (<i>Oryza sativa</i>) and its by product
2P-3	11.	Rama Krishna K CAS and safety precautions to be taken
2P-4	12.	Krishnakumar P Effect of various storage condition on quality of dried cluster bean (<i>Cyamopsis tetragonoloba</i>)
2P-5	13.	V K Singh Moisture content variations in stacks of paddy, rice (<i>Oryza sativa</i>) and wheat (<i>Triticum aestivum</i>): A case study
2P-6	14.	Yamoah Alice Levels of Ochratoxin A in cocoa beans (<i>Theobroma cacao</i>) from western regions of Ghana
2P-7	15.	Santosh Satya Impact of chemical pesticides for stored grain protection on environment and human health
2P-8	16.	Xin DU A rapid method for analysis of fumigant residues in wheat (<i>Triticum aestivum</i>)
2P-9	17.	Zhang Chongxia Effects of controlled atmosphere storage with nitrogen on quality of soybean (<i>Glycine max</i>) with different moisture content

2P-10	18.	Li Haojie Effect of controlled atmosphere with nitrogen (N ₂ -CA) on fatty acid value of maize (<i>Zea mays</i> L.) under different temperature conditions
2P-11	19.	Yan Xiaoping Effect of controlled atmosphere with nitrogen (N ₂ -CA) on fatty acid value of paddy under different temperature conditions
Session 3-Methyl bromide alternatives and novel fumigants		
3P-1	20.	B S Li Forced hot-air quarantine treatment to control <i>Acanthoscelides pallidipennis</i> in seeds of false indigo (<i>Amorpha fruticosa</i>)
3P-2	21.	Kim B S Efficacy of ethanedinitrile (EDN) as an alternative of methyl bromide for control of fungal diseases in post-harvest products and cultural heritages
3P-3	22.	Kim B S Scale-up fumigation of ethanedinitrile (EDN) on cultural heritage structures in Korea for controlling insect pests and fungal diseases
3P-4	23.	Sri Widayanti Efficacy of sulfuryl fluoride against major insect pests of stored commodities in Indonesia
3P-5	24.	Bishnu Maya Bashyal Methyl bromide alternative against fungal pathogens of cereals and pulses
3P-6	25.	Balreet Pruthi Controlled Atmosphere and Fumigation in India: advantages, limitations and opportunities from a professional pest managers view point

3P-7	26.	K C Sharma Bio-efficacy of ethyl formate against lesser grain borer, <i>Rhizopertha dominica</i>
Session 4-Fumigant application technologies		
4P-1	27.	Kreibich H H Antifungal efficiency of ozone on cocoa beans (<i>Theobroma cacao</i>) inoculated with <i>Aspergillus flavus</i>
4P-2	28.	Silva JR Effect of ozone gas on water activity conditions during extruded food storage and fungi spores inactivation
4P-3	29.	Shubhangi Srivastava Effects of ozone fumigation treatments on mortality of insect pests in stored rice (<i>Oryza sativa</i>) and wheat (<i>Triticum aestivum</i>) grains
4P-4	30.	Park M.G. Application of ethyl formate with nitrogen in controlling fruit and vegetable insect pests in perishable commodities
4P-5	31.	Yanyu Li Field trials using ethyl formate as grain surface and empty silo treatments
4P-6	32.	Sunil Kumar Vacuum hermetic fumigation for food-grain storage
Session 5-CA and hermetic storage application technologies		

5P-1	33.	Alien Arias Barreto Prediction of insect development in a wheat (<i>Triticum aestivum</i>) silo-bag by computer simulation
5P-2	34.	Alvarez E A preliminary comparative study of conventional and hermetic storage of wet distillers grains with solubles
5P-3	35.	Aulicky Radek Preliminary report on controlled nitrogen atmosphere in metal silo bin in the Czech Republic
5P-4	36.	Cardoso L Hermetic storage of wet corn in liners with and without ethylene vinyl alcohol (EVOH) barrier
5P-5	37.	Moses JA Hermetic storage of coriander (<i>Coriandrum sativum</i>) seeds
5P-6	38.	Ravindra Naik Development of cost effective facility for measurement of gas permeability of silicone membrane for its suitability for modified atmospheric storage
5P-7	39.	Vishal Kumar Qualitative loss of wheat (<i>Triticum aestivum</i>) under different bag storage modes
5P-8	40.	Hilal Ahmad Punoo Application of methyl bromide in fumigation of dairy products
5P-9	41.	Sanoj Kumar Advances in controlled- or modified-atmosphere storage and packaging, and their application
5P-10	42.	Anuja Gupta Application of modified atmosphere technique in seed health management
5P-11	43.	Parag Chheda From chemical to alternatives: The success story of a corn (<i>Zea mays</i>) milling company in India

Session 6 - CA/fumigation engineering aspects			
6P-1	44.	Ambrish Ganachari	Development of portable modified atmospheric packaging (MAP) unit for grain disinfestation
6P-2	45.	Moses JA	Three-dimensional phosphine distribution patterns in cylindrical structures filled with grain
6P-3	46.	Shi Tian-yu	Application of phosphine recirculation fumigation for rice storage in warehouse with transverse ventilation system
6P-4	47.	Nivas G	Improved electronic grain probe trap for the detection of pests in stored grains
6P-5	48.	Eugenie Belobrov	Technology of mandatory control of holds sealing and phosphine effluxes
6P-6	49.	Xin Du	HS-SPME-GCMS analysis of multi-fumigants residue in wheat
Session 7-Insect resistance to fumigants and pest management strategies			
7P-1	50.	S V S Gopala Swamy	Effectiveness of phosphine fumigation in controlling insect pests in a rice (<i>Oryza sativa</i>) storage warehouse
7P-3	51.	Alhajim I A	Comparison in physiological behaviour of phosphine resistant and susceptible strains of lesser grain borer <i>Rhyzopertha dominica</i> (F.)
Session 8-Quarantine and integrated CA management			

8P-1	52.	Jarmila Malkova Efficacy of ethanedinitrile and hydrogen cyanide on wood infesting insects
8P-2	53.	Alice R P Sujeetha Entomopathogenic fungi a potential biopesticide against storage pests

Session 9-Traditional storage systems		
9P-1	54.	Gennady Zakladnoy Integrated protection and fumigation of grain in Russia
9P-2	55.	Laxmikanta Nayak Prospects of using of jute bags in storage systems
9P-3	56.	P H Bakane Traditional storage practices of paddy (<i>Oryza sativa</i>) in Chhattisgarh, India
9P-4	57.	Syed Zameer Hussain Jute Bags-A Threat To Human Life
9P-5	58.	Arjoo Design and development of a double-walled insulated metallic silo for small scale grain storage system for food safety in Indian rural sector
9P-7	59.	K Pawar Storage under reduced specifications of wheat (<i>Triticum aestivum</i>)
9P-8	60.	Sukreeti Sharma Structured recording of data and analysis of loss in public storage system
Session M- Miscellaneous Crops		

MP-1	61.	B. D. Pankaja Modified atmospheric packaging for enhancing the shelf-life of guava (<i>Psidium guajava</i>)
MP-2	62.	Balakrishnan M Development of curing-cum storage system for multiplier onion (<i>Allium cepa</i> L. var. <i>aggregatum</i>)
MP-3	63.	Banuu Priya E P Safe storage guidelines for small onion (<i>Allium cepa</i> L. var. <i>aggregatum</i>) under modified bulk-storage system
MP-4	64.	Biswas Sanchita Effect of packaging films and storage temperature on shelf-life of guava (<i>Psidium guajava</i>) under modified atmosphere packaging
MP-5	65.	D. C. Joshi Continuous monitoring system for controlled atmosphere storage of fruits and vegetables
MP-6	66.	Gennady Zakladnoy Bi-insecticide for the grain protection from insects
MP-7	67.	Gomathy K Airflow resistance of multiplier onion (<i>Allium cepa</i> L. var. <i>aggregatum</i>) as affected by moisture content, bed thickness and airflow rate
MP-8	68.	Habibur Rehman Toxic and growth inhibitory effects of essential plant extracts against notorious flour beetle, <i>Tribolium castaneum</i>
MP-9	69.	Habibur Rehman Growth inhibitory effects of some medicinal plant extracts against rust red beetle, <i>Tribolium castaneum</i>
MP-10	70.	Kazam Ali Bioactivity of <i>Colocynthis citrullus</i> and <i>Melia azedarach</i> as toxicant and enzyme inhibitor in three important insect species of stored grains and their products

MP-11	71.	M N Dhabhi Performance of forced air-ventilated system for storage of onion (<i>Allium cepa</i>)
MP-12	72.	Mansoor ul Hasan Combine effect of diatomaceous earth and insect growth regulators against <i>Trogoderma agrarium</i>
MP-13	73.	Minati Mohapatra Respiration pattern of <i>jamun</i> (<i>Syzygium cumini</i>) stored under modified atmospheric packaging at different temperature
MP-14	74.	Muhammad Ismail Laboratory study of entomopathogenic fungus <i>Beauveria bassiana</i> and new chemistry insecticides against <i>Spodoptera litura</i>
MP-15	75.	Muhammad Ismail Evaluation of biological interaction between white muscardine fungus <i>Beauveria bassiana</i> and new chemistries under laboratory conditions
MP-16	76.	Naved Sabir Controlled atmosphere fumigation – an Indian perspective for greenhouse soils
MP-17	77.	Nawaz Haider Bashir Combined efficacy of Azadirachtin (Margosom®) and <i>Beauveria bassiana</i> (Bals.) (Racer BB®) against <i>Tribolium castaneum</i> and <i>Coryra cephalonica</i>
MP-18	78.	Nawaz Haider Bashir Entomocidal of Azadirachtin (Margosom®) and <i>Verticillium lecanii</i> (Mealkil VL®) against <i>Tribolium castaneum</i>
MP-19	79.	P Geetha Effect of modified atmospheric packaging on the quality of minimally processed carrots (<i>Daucus carota</i> var. <i>sativa</i>)
MP-20	80.	P Patgiri Bio-rational insecticide for safe storage of green gram (<i>Vigna radiata</i>)

MP-21	81.	Patel S Indigenous farm level grain storage structures in Chhattisgarh, India
MP-22	82.	Qurban Ali Efficacy of new chemistry spinosad along with some plant extracts as grain protectant against <i>Rhyzopertha dominica</i>
MP-23	83.	R K Pal Controlled atmosphere technology for quality assurance, sanitary and phytosanitary measures for agricultural produce
MP-24	84.	Rajendra Dhudashia Storage of on mechanically damaged wheat (<i>Triticum aestivum</i>) grain with castor (<i>Ricinus communis</i>) oil treatment
MP-25	85.	Ravindra Naik Storage of minimally processed multiplier onion (<i>Allium cepa</i> var. <i>aggregatum</i>) by modified atmosphere using silicone membrane
MP-26	86.	Ryan R.F. Phosphine Chemistry Issues
MP-27	87.	S D Deshpande Recent advances in modified and controlled atmosphere packaging with special perspective to value chain of post-harvest food processing
MP-28	88.	Sabina A. Malik Biology of two spotted spider mite, <i>Tetranychus urticae</i> in Dodi (<i>Leptadenia reticulata</i>)
MP-29	89.	Sehrish Kanwal Growth-inhibitory and feeding-deterrence effects of plant extracts and insect growth-regulators against notorious insect-pests of stored grains
MP-30	90.	Sehrish Kanwal Toxic potential of some essential plant extracts and insect growth-regulators against insect-pests of stored grains

MP-31	91.	Shamjana U Genetic Structure of <i>Tribolium castaneum</i> in grain storage facilities using microsatellites
MP-32	92.	Tushir Surya Opportunities in agro-residue management using fermentation technology
MP-33	93.	Usman Wali Muhammad Laboratory Assessment of <i>Metarhizium anisopliae</i> , <i>Verticillium lecanii</i> and <i>Azadirachta indica</i> against lesser grain-borer (<i>Rhyzopertha dominica</i>) and pulse beetle (<i>Callosobruchus chinensis</i>)
MP-34	94.	V. Eyarkai Nambi Effect of shrink-wrap packaging on quality of cauliflower (<i>Brassica oleracea</i> convar. <i>botrytis</i> var. <i>botrytis</i>) head during storage
MP-35	95.	Waheed Ul Hassan Impact of some new insecticides formulations on tritrophic interaction of Bt-Cotton (<i>Gossypium</i> sp.) cultivars, bollworm-complex and natural enemies in field and mortality-survival fitness of dusky and red cotton bugs (<i>Dysdercus koenigii</i>) in laboratory
MP-36	96.	Amritesh C. Shukla <i>In-vitro</i> & <i>in-silico</i> investigations of essential oil as an alternative for the management of stored product pests
MP-37	97.	Dinesh Singh Management of post-harvest diseases of kinnow (<i>Citrus reticulata</i>) fruits during storage
MP-38	98.	Syed Najam ul Hassan Integration of <i>Metarhizium anisopliae</i> and <i>Bacillus thuringiensis</i> with <i>Azadiractin</i> (<i>Oryza sativa</i>) on stored rice for the control of <i>Coryca cephalonica</i>
MP-39	99.	S Easwaran Standardizing fruit maturity and post-harvest dip for improving shelf life of guava (<i>Psidium guajava</i>) var. Lucknow 49
MP-40	100.	Sangeeta Chopra Role of packaging atmosphere on quality and shelf life of fresh-cut produce

MP-41	101.	Prachi Singh Essential oil based synergistic formulation and spatio-temporal characteristics of <i>Rhyzopertha dominica</i> for developing eco-friendly system for stored grain protection
MP-42	102.	Fayaz Ahmad Teli Comparative resistance of mungbean (<i>Vigna radiata</i>) genotypes against pulse beetles, <i>Callosobruchus maculatus</i> (F.) under temperate condition of Kashmir valley
MP-43	103.	Kirti Sharma Natural plant products: A safe preventive measure against stored grain insect-pests
MP-44	104.	Manisha Anand Extraction and <i>in-vitro</i> evaluation of antidiabetic efficacy of bioactive extracts from okra (<i>Abelmoschus esculentus</i>) and their encapsulation for controlled gastrointestinal passage
MP-45	105.	N M Shakuntala Identification of insect resistant variety suitable for better storability in pigeon pea (<i>Cajanus cajan</i>)
MP-46	106.	N M Shakuntala Identification of insect resistant variety suitable for better storability in paddy (<i>Oryza sativa</i> L.)
MP-47	107.	Harischandra Naik R Significance of endosymbiont in stored grain insects and their characterization in <i>Rhyzopertha dominica</i> (Fabricius) and <i>Tribolium castaneum</i> (Herbst.) in the population collected from Southern India
MP-48	108.	Harischandra Naik R Status of insect pests diversity, fumigation and resistance to phosphine in storages of southern India
MP-49	109.	R. Pandiselvam Effect of ozone gas on mortality of stored grain insects and reaction kinetics in rice
MP-51	110.	Rohitashw Kumar Fumigation techniques, protection of the environment, health and safety issues

MP-52	111.	Jouda Mediouni- Ben Jemâa Postharvest non-chemical control alternatives for the management of the date moth <i>Ectomyelois ceratoniae</i> Zeller (Lepidoptera: Pyralidae) in Tunisia
MP-53	112.	Krishna Pratap Singh Postharvest application of fungicides, antagonists and plant products for controlling storage scab and rots of apple fruits
MP-54	113.	Ranjeet Singh Active packaging technologies for selected horticultural produce
MP-55	114.	R S Ramya Inheritance of phosphine resistance in Red Flour Beetle, <i>Tribolium castaneum</i> (Herbst)
MP-56	115.	C A Jayaprakas <i>Manihot esculenta</i> Crantz – a potent crop for the extraction of insecticidal molecules for the management of stored-product insect pests
MP-57	116.	S Chandrasekaran Studies on phosphine resistance in red flour beetle, <i>Tribolium castaneum</i> (Herbst) (Tenebrionidae; Coleoptera) Collected from Tamil Nadu
MP-58	117.	S Mohankumar Frequency of phosphine resistance allele at rph2 in <i>Tribolium castaneum</i> (Herbst) collected from Tamil Nadu
MP-59	118.	T Sonai Rajan Spread of phosphine resistance allele in <i>Tribolium castaneum</i> (Herbst) from three different geographical habitats of Coimbatore, Tamil Nadu, India