

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

Day – 1 07 November, 2016, Monday			
Time			
	Hall I	Hall II	
0900-0940	Registration & Health Break		
0940-1000			
1000-1030			
1030-1050			
1050-1110			
Inaugural Session			
1110-1140	Seema Kakkar Overview of Food Corporation of India (FCI)		
1140-1240			
Industry Speakers			
1240-1400	Lunch Break		
1400-1440	10-2P Subramanyam BH Efficacy of ozone gas against laboratory and field strains of four stored-product insect species	20-1P	Dhingra D Evolution and trends in food grain storage in India
1440-1500	10-1 Ahmed Q Evaluation of ethyl formate, phosphine and their combination to manage springtails on harvested celery (<i>Apium graveolens</i>)	20-1	Zeng L Ecological control techniques for <i>Cryptolestes</i> pests in high temperature and high humidity stored grain area
1500-1520	10-3 Isikber AA Fumigant toxicity and joint action of garlic essential oil and its main compound, allyl disulphide with 34 certain modified atmospheres against confused flour beetle, <i>Tribolium confusum</i>	20-2	Anandakumar S Effect of ozone fumigation on controlling drugstore beetle (<i>Stegobium paniceum</i>) and quality of coriander (<i>Coriandrum sativum</i>) during storage

Health Break				
1520-1550				
1550-1610	1O-4	Patil NB Ecofriendly approach for rice weevil, (<i>Sitophilus oryzae</i>) (Coleoptera: Curculionidae) management using fumigant oils	2O-3	Borchmann DW Residues and effects on the aroma profile of apples as result of phosphine fumigation.
1610-1630	1O-5	Arulprakash R Evaluation of carbon dioxide treatment on the management of groundnut seed borer (<i>Caryedon serratus</i>)	2O-4	Jonffa-Essien WA Fat content and free fatty acid level of cocoa beans (<i>Theobroma cacao</i>) relative to fermentation and storage periods
1630-1650	1O-6	Seram D Development and damage assessment of the storage beetle, <i>Callosobruchus maculatus</i> (Thanjavur and Coimbatore strain) under normal and controlled conditions	2O-5	Amuthaselvi Controlled atmosphere storage of moringa (<i>Moringa oleifera</i>) pods
1650-1710	Industry		Industry	
1710-1800	BREAK			
1800-1930	Cultural Program			
1930-2200	Dinner			
Time	Day – 2 08 November, 2016, Tuesday			
	Hall I		Hall II	
0900-0940	3O-1P	Banks J Heat disinfestation of decorative, high value wooden paneling—an alternative to fumigation	9O-1P	Naveena NL Traditional grain storage practices among Soligas of Karnataka, India
0940-1000	3O-2	Navarro S Current global challenges to the use of fumigants	9O-2	Kavitha Abirami CV Abiotic and biotic changes in wheat (<i>Triticum aestivum</i>) bulks stored under Indian traditional practice of cover and plinth structure

1000-1030		Health Breaks		
1030-1050	3O-3	Kaur R Developing sulfuryl fluoride fumigation protocols for the management of phosphine-resistant grain insect pests	9O-3	Anandakumar S Effect of PVC coated fabric cover on quality of paddy (<i>Oryza sativa</i>) during cover and plinth (CAP) storage
1050-1110	3O-4	Emekci M The efficacy of ECO ₂ Fume® under low pressures against the egg stages of dried fruit pests	9O-4	Sandeep Mann Traditional grain storage practices in India: SWOT analysis
1110-1130	3O-5	Jian F Mortality of stored-grain insects in stored wheat (<i>Triticum sp.</i>) fumigated with ozone	9O-5	Raghavan G., S. V. Transformed traditional storage of crops in India – Challenges and potential impacts
1130-1150	3O-6	Mahendran R Effect of cold plasma on mortality of <i>Tribolium castaneum</i> on refined wheat flour	9O-7	Kadam DM Physico-chemical properties of wheat (<i>Triticum aestivum</i>) under different storage receptacles
1150-1210	3O-7	Wilches D Low and high temperature treatments as alternatives to methyl bromide control of <i>Trogoderma granarium</i>	9O-8	Sharma DK Storage of wheat (<i>Triticum aestivum</i>) in jute (<i>Corchorus</i> sp.) bags: An Indian storage system case study
1210-1230	3O-8	Subramanyam BH Structural heat treatments to manage stored-product insects and software to optimize heat treatments	9O-9	Sharma DK Norms for storage gains/losses: A case for wheat (<i>Triticum aestivum</i>) stored in FCI/ godowns in India
1230-1400	Lunch Break			
1400-1440	3O-9	Hulasare R Heat Treatment to Control Stored Product Insects in Food Processing Facilities and Storage Structures	6O-1-P	Jayas DS Engineering considerations for creating uniform distribution of applied gas during controlled atmospheres and fumigation
	3O-10	Navarro H Comparative practical application of two novel candidate fumigants		
1440-1500	3O-11	Meenatchi R Use of carbon dioxide (CO ₂) and phosphine (PH ₃) for management of major stored-product insects of paddy (<i>Oryza sativa</i> (L.))	6O-2	Cook S Computational fluid dynamics modeling of phosphine distribution and recirculation in sealed grain silos

1500-1520	30-12	Singh SP Ethylene dichloride-carbon tetrachloride†: a fumigant for disinfection of germplasm under exchange against insect pests	60-3	Tian-yu S Application of phosphine recirculation fumigation for wheat (<i>Triticum aestivum</i>) storage in warehouse with transverse ventilation system
1520-1550	Health Break			
1550-1610	30-13	Liu YB Prospect of nitric oxide as a new fumigant for post-harvest pest control	60-4	Bartosik R An approach for developing a phosphine dosage procedure and calculator for silo bags
1610-1630	30-14	Li B Control of immature stages of the red flour beetle, (<i>Tribolium castaneum</i>) with chlorine dioxide	60-5	Chelladurai V Permeability of silo bag material for carbon dioxide and oxygen
1630-1650	30-15	Xinyi E Efficacy of chlorine dioxide gas against laboratory and field strains of five stored-product insect species	60-6	Gupta RK Fumigation of grapes (<i>Vitis vinifera</i>) with sulphur dioxide (SO ₂) to control insect-pest during storage
1650-1710	30-16	Stejskal V Flour-mill fumigation using hydrogen cyanide insecticide gas	Industry	
1710-1800	BREAK			
1800-1930	WORKSHOP I- Infestation Management Challenges in Rice Industry			
1930-2200	Dinner			
Time	Day – 3 09 November, 2016, Wednesday			
0700-1600	Tour 1	Fumigation of grains stored in Silos owned by Adani Agri Logistics near Kaithal, Haryana		
0830-1600	Tour 2	ICAR-National Bureau of Plant Genetic Resources, New Delhi & Indian Agricultural Science Museum, New Delhi		
0900-1600	Tour 3	Bag Storage Facility of Food Corporation of India and Indian Agriculture Science Museum, in New Delhi		
1600-1900	Free Time			

1900-2200		BANQUET DINNER			
Time		Day – 4 10 November, 2016, Thursday			
		Hall I		Hall II	
0900-0940	30-17	Geetanajly Fumigation potential of organic compounds against different stages of <i>Tribolium castaneum</i>	60-7	Glennon D Web based fumigation monitoring with active sensor validation minimizes resistance to phosphine fumigation in stored grains	
	30-18	Agarwal M Toxicity comparison between ethanedinitrile and methyl bromide against six major stored grain pests	60-8	Nagaraj S Non-dispersive infrared based SO ₂ F ₂ analyzers for fumigation monitoring and personal protection	
0940-1000	30-19	Mahroof R Ozone treatment as an alternative for conventional fumigation to manage stored product insects	60-9	Naik RC Detectors for ozone fumigation	
1000-1030	Health Break				
1030-1050	Navarro S				
1050-1110	50-1P	Emerging global technological challenges in the reduction of post-harvest grain losses Madhumathi T	80-1-P	K. Alagusundaram Should India consider shifting to bulk food grain storage system? – A conceptual frame work	
1110-1130	50-2	Influence of hermetic storage on the survival and damage caused by <i>Sitophilus oryzae</i> on maize (<i>Zea mays</i>) and Caryedon serratus on groundnut (<i>Arachis hypogaea</i>) Preethi K	80-2	Walse S.S. Current analytical advances in fumigation science at USDA-ARS	
1130-1150	50-3	Hermetic storage of pearl millet (<i>Pennisetum glaucum</i>) and sorghum (<i>Sorghum bicolor</i>) Garg MK	80-3	Walse S.S. Postharvest chamber fumigation with cylindrized phosphine to control key insect pests of fresh citrus	
1150-1210	50-4	Comparative evaluation of quality changes in stored wheat (<i>Triticum aestivum</i>) in hermetic bags and conventional storage methods Cornel A	80-5	Aleksha Kudos SK Assessment of loss during bulk storage of wheat (<i>Triticum aestivum</i>) in India	
1210-1230	50-5	Comparative evaluation of quality changes in stored wheat (<i>Triticum aestivum</i>) in hermetic bags and conventional storage methods Cornel A	80-6	Braunbeck CM Comprehensive review about grain cooling as total solution for protection of stored commodities to maintain quality and quantity under humid tropical condition	

1230-1400		Lunch Break		
1400-1440	50-6	Barreto AA Computer simulation of gas concentration in the interstitial atmosphere of a soybean (<i>Glycine max</i>) silo bag for typical agricultural areas of Argentina	80-7	Sagheer M Fumigant bioactivity of extracts of <i>Citrus colocythae</i> , <i>Moringa oleifera</i> and <i>Azadirachta indica</i> against <i>Tribolium castaneum</i> and <i>Alphitobius diaperinus</i> under laboratory conditions
	50-7	Mvumi BM Grainpro Cocoons™ as an alternative to phosphine fumigation for large scale grain storage in Zimbabwe	80-8	Bhalla S Fumigation as a quarantine disinfestation treatment of imported germplasm: A case study of cereals
1440-1500	50-8	De Bruin T Comparative field trials of hermetic storage and modified atmospheres of milled rice (<i>Oryza sativa</i>) in tropical climates	80-9	Mehndiratta P Silo Storage & Fumigant Application Technologies- Our experience in fumigation with QuickPHL-RTM phosphine generator in our silos
1500-1520	50-9	Jian Y Application and development of controlled atmosphere with nitrogen in Chinese grain storage	80-10	Hasan M Entomocidal effect of diatomaceous earth and thiamethoxam alone and in combination against <i>Tribolium castaneum</i> (Herbst)
1520-1550	Health Break			
1550-1610	70-1-P	Walse SS Postharvest treatment research at USDA-ARS: Stored product fumigation	80-11	Phillips T Methyl bromide alternatives for the ham mite, <i>Tyrophagus putrescentiae</i> : IPM through prevention, monitoring and mitigation
1610-1630			80-12	Ahmad HM Efficacy of diatomaceous earth against <i>Rhizopertha dominica</i> and <i>Tribolium castaneum</i> using three types of packaging materials
1630-1650			70-2	Srivastava C Status of phosphine resistance in stored grain insect pests in Uttar Pradesh, India
1650-1710	70-3	Jagadeesan R Phosphine (PH ₃)-resistant grain insect pests fail to confer cross resistance to sulfuryl fluoride	Industry	
1710-1800	BREAK			

1800-1930	WORKSHOP II- Good Fumigation Practices			
1930-2200	Dinner Permanent Committee Meeting			
Time	Day – 5 11 November, 2016, Friday			
	Hall I		Hall II	
0900-0940	7O-4	Mohan S Use of light traps in a phosphine resistance management strategy for <i>Tribolium castaneum</i> in Indian grain storage warehouses	4O-1P	Rajendran S Perfecting phosphine fumigations for food grain preservation and international trade in India
	7O-5	Sabtharishi S DNA markers for phosphine resistance in populations of <i>Tribolium castaneum</i> from Punjab, India		
0940-1000	7O-6	Phillips TW Phosphine resistance in North American Grain Beetles	4O-2	Ferizli AG Fumigant recirculation in Aynalikavak pavilion
1000-1030	Health Break			
1030-1050	7O-7	Wang D Resistance of phosphine to eleven strains of <i>Tribolium castaneum</i> (Herbst) and stage-specific mortality of susceptible and resistant strains	4O-3	Jakob G Fumigation with phosphine—still an important tool for successful stored product protection in the future?
1050-1110	7O-8	Nayak M Recent advances in phosphine resistance monitoring methods	4O-4	Chadda IC Improved procedures for fumigating grain storages with phosphine in Indian warehouses
1110-1130	7O-9	Athanasiou CG Evaluation of phosphine resistance in stored-product insects in Greece	4O-5	Dinesha BL Review and prospect for development of food grain fumigation machinery's in India
1130-1150	7P-2	Kakkar A Management of stored grain pests using aluminium phosphide	4O-7	Savi GD Effect of ozone gas on degradation of organophosphate and pyrethroid pesticide residues in whole wheat (<i>Triticum aestivum</i>) grains during storage

1150-1210	Vithal. P.S.R.V.S (Industry) “KILL BINS” for mass trapping of cigarette beetle (<i>Lasioderma serricorne</i> F.) in tobacco supply chain	40-8	Scussel VM Field and storage fungi inactivation and mycotoxins degradation by ozone gas in grains and nuts
1210-1230	Industry	40-9	Pushpaksen A Phosphine Generator For quarantine application
1230-1400	Lunch Break		
1400-1440	CONCLUDING SESSION REPORTS & CLOSING CEREMONY		
1440-1500			
1500-1520			
1520-1550			
1550-1610			
1610-1630			
1630-1650	Free Evening		
1650-1710			
1710-1800			
1800-2000			
2000-2200			