

**International Conference on
21st Century challenges to sustainable agri-food systems
March 15-17, 2007, Bangalore, India**

Details of accepted abstracts of oral presentation

Sl. No.	Title of the abstract	Name of the author (s)
1.	A success story for transfer and commercialization of food processing technologies through a USAID funded project – what did it take?	Manjeet. S. Chinnan Professor of Food Engineering, Department of Food Science and Technology 1109 Experiment Street, University of Georgia, Griffin, GA 30223
2.	Biological suppression of sheath blight disease of rice with animal urine	¹Raja, J., C. Suganthi² and V. Kurucheve¹ ¹ Department of Plant Pathology, Annamalai University, Annamalainagar-608 002, ² Krishi Vigyan Kendra, Vriddhachalam-606 001, India, E-mail: rajaj_au@yahoo.co.in
3.	Evaluation of Economically Viable Rice - Based Cropping Systems And Land Resource Use Under Late Water Receipt Situation In The Tail-End Cauvery Deltaic Zone	Thanunathan, k¹., M.Thiruppathi² and C.Karunaithasan³ 1 Professor of Agronomy, Faculty of Agriculture, Annamalai University, Annamalai Nagar 608002
4.	Eco-Friendly Management Of Soybean Pod Borers With Special Reference to <i>Cydia Ptychora</i> (Meyrick) (Lepidoptera: Tortricidae)	Patil, R.H. And Abhilash, C. AICRP on Soybean, Main Agricultural Research Station, University of Agricultural Sciences, Dharwad – 580 005 E-mail: patil_rh@rediffmail.com
5.	Development of Value Added Products from Jack Fruit (<i>Artocarpus heterophyllus L.</i>) to Enhance Farm Income of Rural People	K.B. Munishamanna, B. Ranganna, S. Subramanya, R. Chandru, V. Palanimuthu S. Subramanya: Post Harvest Technology Scheme, UAS, Bangalore
6.	Water resource management for sustainable agriculture in Indian Punjab	Rajan Agarwal, M.P. Kaushal, Saman Preet Kaur and Bhupinder Singh Punjab Agricultural University, Ludhiana, Punjab
7.	Processing - Adding Value to Cereal Grains for Food and Industrial Applications	Dr. Sajid Alavi, Assistant Professor, Dept. of Grain Science and Industry, Kansas State University, Manhattan, KS, USA.
8.	Water Requirement, Tuber Yield and Economics of Potato under Micro Irrigation and Mulching	P.K.Singh*, K.K.Singh* and M.P.Singh** *Sr. Research Officer and Prof., Dept. of Irrigation and Drainage Engineering ** Sr. Research Officer, Vegetable Science, G. B. Pant University of Agriculture & Technology, Pantnagar-263145 Uttaranchal, India
9.	Mineral Status of Feeds and fodder and its Influence on Livestock and its Products in red Lateritic Zone of West Bengal	M, Mondal, S. K. Pyne and G. Samanta Dept of Animal Nutrition, West Bengal University of Animal and Fishery Sciences, Kolkata – 700037
10.	Assessment of a few Natural capital components from three different land use systems for sustainable development	Devakumar. A.S., Kushalappa C.G. and Prakash N.A. Department of Forest Biology and Tree improvement, Forestry College, Ponnampet- 571216, Kodagu, India, Email: devakumaras@yahoo.co.in

11.	Screening of sesame varieties against major diseases in the coastal ecosystem of U.T. Of Puducherry	V. Kavitha, J.Rammohan, C.Jeyalakshmi and V.Chellamuthu Pandit Jawaharlal Nehru College of Agriculture & Research Institute, Karaikal 609 603, U.T. of Puducherry, India
12.	Organic Produce Supply Chains for Sustainable Agri-Food Systems and Livelihoods?: Case Studies of Organic Basmati Rice in India	Sukhpal Singh Centre for Management in Agriculture (CMA), Indian Institute of Management (IIM), Ahmedabad – 380 015, Gujarat, E-mail: sukhpal@iimahd.ernet.in
13.	An economic assessment of organic farming: Implications for sustainable development of rural areas	Alex Baer and Gerard D'Souza Agricultural and Resource Economics Program, West Virginia University, Morgantown, WV, USA.
14.	Stree Shakthi programme (SSP): A new experiment on women empowerment in Karnataka - a case study	K. Venkata Ranga Naika* and Praveen Kumar. B.R *Professor of Agricultural Extension, GKVK, Bangalore
15.	Development of precision farming technique for banana	U.S. Kadam Dapoli, Maharsatra
16.	Influence of Organic Source Of Nutrients on Growth Attributes and Pod Yield In Groundnut (<i>Arachis Hypogaea L.</i>)	Chandra Shekar, U.S.*, Venkata Reddy, D.M., Narayan Swamy, S., Siddaraju, S. and Parashiva Murthy * Dept. of Seed Science and Technology, UAS, GKVK, Bangalore - 65
17.	Consumer attitudes towards gm food and pesticide Residues in India	Vijesh V. Krishna* and Matin Qaim *Dept. of Agricultural Economics and Social Science, 490B, University of Hohenheim, Stuttgart, 70593 Germany
18.	Quality Raisin Production by using Microwave Drying Technique	Shashikala Bai D Assistant Professor, Dept of AFE, CAE, Raichur, Karnataka, India
19.	Prioritisation of Major Crops Research in Saurashtra Region of Western India: Framework and Strategies for Sustainable Agricultural Development	Dhandhalya M. G. and Shiyani R. L. Department of Agricultural Economics, Junagadh Agricultural University, Junagadh (Gujarat), India, E-mail: rlshiyani@yahoo.com
20.	Towards A Better Price Realisation For Agri Exports From India	Dr. Shamim Ahmad, Professor, Ms. Umme Hani Research scholar, Department of Agricultural Economics & Business Management, Aligarh Muslim University, Aligarh – 202 002, India
21.	Crop-livestock Integration for Sustainable Production System in Semi-Arid Region of Andhra Pradesh, India	G.P.Reddy, K.H.Rao, K.V.Kumar, M.N.Reddy and N.H.Rao National Academy of Agricultural Research Management, Rajendranagar, Hyderabad-500 030, Andhra Pradesh
22.	Advanced sensor and information technologies to enhance sustainability in agri-food systems: A comprehensive analysis.	Suranjan Panigrahi Professor, Department of Agricultural and Bio-systems Engineering North Dakota State University, FARGO, ND 58105. USA. Email: s.panigrahi@ndsu.edu
23.	Impact Of Declining Water Quality On Crop Output In Coastal And Inland Rice Production Environments In South India	K. Ravirajan and L. Umamaheswari* Research Associate, National Bureau of Soil Survey and Land Use Planning, Bangalore, India

24.	Reclamation of saline / alkaline soils through aquaculture	Shivakumar, M.*, G.P. Puttaswamy and C. Vasudevappa University of Agricultural Sciences, Zonal Agricultural Research Station V.C. Farm, Mandya 571405 India E mail: fishcomagada@rediffmail.com
25.	Utilisation of Gold Ore Tailing as a Source Of Micronutrient In Improving Soil Fertility and Crop Yield	Vidyavathi¹, K.K.Math¹ And G.S.Yadahalli² 1-Department of Soil Science and Agricultural Chemistry, UAS, Dharwad-5 2- Department of Agronomy, UAS, Dharwad-5
26.	Effect of enriched press mud compost on nutrient availability and yield of rice	D.Kalaivanan and K. Omar Hattab Dept. of Soil Science & Agrl. Chemistry, Pandit Jawaharlal Nehru College of Agriculture and Research Institute, Karaikal, UT of Pondicherry, India
27.	Remote sensing and GIS for natural resources management – a case study	U. K. Shanwad*, V. C. Patil*, H. Honne Gowda**, A. D. Janawade*, G. S. Dasog*, H. T. Channal*, H. B. Babalad* and K. C. Shashidhar* * University of Agricultural Sciences, Krishi Nagar, Dharwad ** Karnataka State Remote Sensing Applications Centre, Bangalore
28.	"Challenges of sustainable Agri-Food systems: Implications for Curriculum, Research, Extension and Development"	Richard Bawden Visiting Distinguished University Professor, Michigan State University
29.	Enhanced Glucose Release from Corn in Ethanol Plants by Ultrasonic Pre-treatment	Samir Kumar Khanal[†], Melissa Montalbo[‡], J (Hans) van Leeuwen^{†,‡}, Gowrishankar Srinivasan[‡] and David Grewell[‡] [†] Department of Civil, Construction and Environmental Engineering [‡] Department of Agricultural and Biosystems Engineering
30.	Present Status and Future Prospects of Processing of Dry Land Fruits.	Kale P.V^{1*}, S.M.Shete², S.S.Bhosale³ and D.B.Yadav⁴ * Strengthening Scheme, Dept. of Agril. Economics, MPKV, Rahuri
31.	Nutritional Status, Dietary Pattern And Food Security Of Farm Households In Maharashtra	Tilekar S.N., M.N. Waghmare, and D.B.Yadav Department of Agricultural Economics, Mahatma Phule Krishi Vidyapeeth, Rahuri (M.S.)
32.	Novel-Value Addition to Farm Produce- A Strategy for Sustainable Rural Development	Dr. R.A Yeledhalli, Dr. B Bankar And Shivashankar. Associate Professor, Dept of Agril Marketing co-operation and ABM, College of Agriculture, UAS, Dharwad
33.	Impact of tsunami on labour employment pattern in agriculture and animal husbandry	B. Ganesh Kumar, Z. George and Kuntola Roy Central Agricultural Research Institute, Port Blair – 744 101, A & N Islands
34.	Status of Manure Anaerobic Digestion in the United States	Robert T. Burns Associate Professor, Agricultural and Biosystems Engineering Department Iowa State University, Ames Iowa
35.	Impact of Technological Interventions on Sustainable Agricultural Production in the Tank Commands of Northern Karnataka	S.M.Mundinamani, B.K.Naik, G.S. Dasog, Gireeshayya Udagatti and S.M.Maragal Community Based Tank Management Consultancy Project, University of Agricultural Sciences, Dharwad, Karnataka, India
36.	Nutrient management through organics Vs inorganic and their integration on sustainable growth, yield and quality of sugarcane (complex hybrid of <i>Saccharum spp.</i>)	S. Raghu, Shankaraiah, N.Jagadeesha*, B.T.Ravindra babu and N.A. Janardhanagowda Ph.D Scholar, Dept. of Agronomy, UAS, GKVK, Bangalore - 65

37.	Systems Engineering Approach to Bio-fertiliser Application for Sustainable Agriculture	Subrata Karmakar, PhD Agricultural and Bioresource Engineering, University of Saskatchewan, 57 Campus Drive, Saskatoon, SK S7N 5A9, CANADA
38.	New Paradigm for Characterizing and Modelling Soil Water	Rabi H. Mohtar Professor, Environmental and Natural Resources Engineering, Agricultural and Biological Engineering Department, Purdue University, West Lafayette, IN 47906 USA
39.	Cleaning harvest machinery for identity-preserved grain production	H. Mark Hanna, Darren H. Jarboe, and Graeme R. Quick Agricultural and Biosystems Engineering Department; Iowa State University, Ames, Iowa, USA
40.	Characterization of sludge from Up flow Anaerobic Sludge Blanket sewage treatment plant for its suitability as crop manure	Anju Arora^{1*}, Sudhir Saxena¹, Alok Pandey² and Lata² 1 Centre for Conservation and Utilisation of Blue Green Algae, Indian Agricultural Research Institute, N. Delhi, 110012, India. 2 Division of Microbiology, Indian Agricultural Research Institute, N. Delhi, 110012, *Corresponding author email: anjudev@yahoo.com
41.	Integrated Pest Management in Tomato – Economic analysis of sustainability	T.M. Gajanana, P.N. Krishna Moorthy, M. Sudha and D. Sreenivasa Murthy Indian Institute of Horticultural Research, Bangalore-560 089, India E-mail: gajanana@ihr.ernet.in
42.	Economic and Environment Assessment of IPM Technology in Groundnut in Karnataka	G. N. Nagaraja¹, B. N. Pradeep Badu² and C. Sukanya³ ¹ Professor (Farm Management), EEU, University of Agricultural Sciences, Hebbal, Bangalore-560024. e-mail: dr_nagarajag@hotmail.com ² Junior Research Fellow, ICAR- IPM Project University of Agricultural Sciences, Bangalore-560 024 ³ Research Associate ICAR- IPM Project University of Agricultural Sciences, Bangalore-560 024
43.	Sustainability of agriculture in the hilly ecosystem of the Nilgiris	Shibi Sebastian*, V. Alagesan**, S. Usha Nandhini ** Professor Regional Research Station, Paiyur, Tamil Nadu, ** Senior Research Fellows, Department of Agricultural Economics, Tamil Nadu Agricultural University, Coimbatore-641003, Tamil Nadu.
44.	Irrigation induced soil degradation : A threat to rural livelihood	B. Chinnappa* & N. Nagaraj * Professor, Agril. Economics, College of Agriculture, Navile, Shimoga - 577204
45.	Contribution of sheep towards the livelihood of rural poor and factors determining their ownership in vulnerable agro climatic zones- A study in Rajasthan	Suresh, A., D.C.Gupta and J.S.Mann* Central Sheep and Wool Research Institute, Avikanagar (via) Jaipur, Rajasthan-304 501, Email: sureshcswri@gmail.com *Scientist (Ag. Economics), Senior Scientist (Ag. Statistics) and Head respectively, Division of Transfer of Technology and Social Sciences, Central Sheep and Wool Research Institute (ICAR), Avikanagar, Rajasthan- 304 501

46.	Rainwater Harvesting: The Relationship between Water Supply Contamination and Community Participation in Rural Karnataka, India.	Pooja Kanwar M.S. Candidate, Resource Management and Administration, Environmental Studies Dept., Antioch University New England. Under supervision of Mr. Shiva Shankar, Civil Engineer, MYRADA. Theme area: Water (Interrelation of Water Issues with Climate, Ecosystems and Human Decisions)
47.	National Agriculture Policy: Need for Regional level Micro initiatives in Agriculture	G.G.Koppa Doctoral student , Institute of rural management anand-388001
48.	Microbial products for new market segments in organic and sustainable agriculture in India and Asia	Samuel S. Gnanamanickam, Moses Christopher¹, Lee West, John Sedivy and Shawn Semones Novozymes Biologicals, Inc, 5400 Corporate Circle, Salem, VA 24153, USA. ¹ Novozymes South Asia Pvt. Ltd, Bangalore, India. Email: SSGn@novozymes.com
49.	Organic recycling through leaf litter in an agro-forestry home garden of Kerala	Sheeba Rebecca Isaac (Assistant Professor) (Senior Scale), Agronomy and Shalini Pillai, P Krishi Vigyan Kendra, Sadanandapuram, Kottarakkara, Kollam - 691 550, Kerala, Kerala Agricultural University Email: sheebarebecca@yahoo.co.in
50.	Integrated Approaches in Tank Water Management	Nagaraja,N¹. , Manjula,N². and Suresh,R². 1Programme Coordinator, Community Based Tank Management Project Consultancy Services, UAS, Bangalore 2Research Associate, Community Based Tank Management Project Consultancy Services, UAS, Bangalore
51.	Chickpea Husk Incorporated Recipes for Health Benefits	Bhatt, Dimple and Kulshrestha, Kalpana Department of Foods & Nutrition, College of Home Science, G. B. Pant University of Agriculture & Technology, Pantnagar- 263145E-mail: bhattdimple@gmail.com
52.	Conservation of Natural Resources through Micro-Watershed Approach	M.A. Shankar*, Murukannapa** and H.Mariraju*** AICRP for Dryland Agriculture, UAS, GKVK, Bangalore, India
53.	Heavy Metal and Micronutrient Levels in Vegetables, Fruits and other Crops Grown Using Sewage in Peri Urban Bangalore	Bhanu Prakash, U. H.¹, Manjula, M.N.², Bhargavi, M.V². and V.R. Ramakrishna Parama³ Ph. D Scholar ¹ , Research Associate ² and Professor ³ Department of Soil Science and Agricultural Chemistry University of Agricultural Sciences, GKVK, Bangalore – 560 065, India E mail: bhanussac@rediffmail.com and vrparama@yahoo.com
54.	Exploring Fungal Pathogens for the Bio control of Major Phytophagous Mites in Karnataka	BASAVARAJ KALMATH, MALLIK, B. and ANDSRINIVASA. N, Department of Entomology, University of Agricultural Sciences, GKVK, Bangalore, Karnataka, India, PIN-560 065, Email : bskalmath@rediffmail.com
55.	Rural Bio-Resource Complex- An Innovative Extension Strategy For Sustainable Agriculture.	M.N. Sheelavantar,K. Narayana Gowda, G. Nagesha*, Aswathnarayana., Babu RM Roy *Senior Research Fellow, DBT-RBRC Project, UAS, Bangalore

56.	Précised rainfed agriculture implements for water harvesting and <i>in situ</i> moisture conservation in sustainable agriculture	Dr. P.K. Padmanathan and Dr. K. Kathirvel Agricultural Engineering College and Research Institute TNAU, Coimbatore Email: pathuphd@gmail.com
57.	Controlling pathogen and nutrient pollution in surface water with vegetative filter strips	Dr Prasanta Kalita, Dr Mark S. Kuhlenschmidt, and Dr. Ted Funk Dr. Prasanta Kalita University of Illinois, Urbana, Champaign 1304 W. Pennsylvania Avenue Urbana IL 61801, USA
58.	Sustainable Engineering education for agri-food systems development	Dr. Brian Steward Associate Professor, Dept. of Agricultural & Biosystems Engineering Iowa State University, Ames, Iowa 50011, USA;
59.	Growing Dryland Grain Sorghum in Clumps to Increase Gain Yield	B.A. Stewart Dryland Agriculture Institute, Department of Agricultural Sciences, West Texas A&M University, Canyon, TX
60.	Transition in Technological paradigm: From the green revolution to Bt cotton in India	Shyama. V. Ramani Institute National de la Recherche Agronomique (INRA)**, France Email: shyama_ramani@yahoo.com Samara Chaklatti UMR Gael Inra, University Pierre Mendes France (France),
61.	Migration and its Implication on Sustainability of Rice Farming in Middle Gangetic Plains of India	G. Anitha and R.P. Singh* * Professor and Head, Division of Agril Economics, Indian Agricultural Research Institute (IARI), New Delhi - 110012
62.	Biotechnology for Sustainable Crop Production	D.S.Navadkar¹, K.S.Birari² and D.B.Yadav³ Assistant Professor, College of Agriculture, Pune
63.	Securing Livelihood of Rural Households through Ragi Based Cropping System in Karnataka	H. Chandrashekar* and G.S. Ananth** * Professor of statistics, PPMC; **Professor and Head, Department of Agricultural Economics, UAS, Bangalore – 560 065
64.	Biodrainage: An Option and Limitation for Combating Water logging And Associated Problems	Dr. Chhedi Lal*, Dr. D.K. Sharma, Dr. K.K. Singh * Professor, Irrigation & Drain. Engg., College of Technology, G.B. Pant University of Agric. & Tech. Pantnagar-263145 (Uttarakhand)
65.	Challenges of Sustainable Agri-Food Systems: Implications for Curriculum, Research, Extension and Development	Dr.K.H.Vedini* & P.V.G.K.Murthy *Deputy Director (M&E) & Programme Coordinator (PGPABM), MANAGE, Hyderabad, Andhra Pradesh
66.	Livestock and Milk Village Development under Private Interventions in Gangetic Plains Region of India	R. K. Singh¹ & N.P.Singh² 1. Department of Agriculture Economics & Statistics, C. S. A. University of Agri. & Tech., Kanpur-208002: and 2. Division of Agric. Economics, I.A.R.I. New Delhi
67.	Homage to Rachel Carson or Whom do Plays listen in the game of IPM?	A.R.V. Kumar, K. Chandrashekar, K.M. Srinivasa Reddy, H.C. Jayadevi and Jayappa School of ecology and conservation and Department of Entomology, UAS, GKVK, Bangalore – 560 065, India

68.	A Frame Work Of Sustainable Agricultural Development	S.S. Raju Senior Scientist, National Centre for Agricultural Economics and Policy Research, Pusa, New Delhi -110012
69.	Participatory Natural Resource Management: Community Based Rainwater Harvesting System in Gujarat	Dr. N.V. Namboodiri Centre for Management in Agriculture, Indian Institute of Management, Vastrapur, Ahmedabad – 380015, nvishnu@iimahd.ernet.in
70.	Asset Dynamics and Livelihood Sustenance: <i>Implication for Women Participation</i>	Gracy C.P. Associate Professor of Agricultural Economics, Directorate of Research, UAS, Bangalore-560 065, India
71.	Agro forestry system for improved income through sustainable natural resources management in rainfed agriculture	G.R. Korwar and G. Pratibha CRIDA, Santoshnagar, Hyderabad – 59, Andhra Pradesh Email: grkorwar@crida.ernet.in , grkorwar@rediffmail.com
72.	Engineering education in India and the US – Helping Build a Sustainable Future by Focusing on Fundamentals and Embracing Biology	D. Raj Raman, Ph.D, PE Associate Professor, Agricultural & Biosystems Engineering, 3222 NSRIC, Iowa State University, Ames, IA 50011-3310
73.	Integrated Plant Nutrient Management for Sustainable Crop Production	Prof. M.S. Pal Dept of Agronomy, College of Agriculture, G.B. Pant University of Agriculture and Technology, Pantnagar – 263145, Email: m spal@indiatimes.com or m spal1@yahoo.com
74.	Wireless Sensor Network (WSN) For Agriculture	Desai* U.B, S.N.Merchant*, N.G.Shah**, Neelamegam*, Ipsita Das** and N.Narbekar** , * Electrical Engineering Department, ** Centre for Technology Alternatives for Rural Areas, Indian Institute of Technology, Bombay Mumbai 400 076, (email: nshah@iitb.ac.in)
75.	Social Capital and Ability to Change Among Indian Farmers	David G. Acker Professor, Department of Agricultural Education, Iowa State University, Ames, Iowa, USA. Email: dacker@iastate.edu
76.	Economic analysis of Rice Research - Biotechnological and Conventional Methods to rectify Productivity Constraints in Tamil Nadu.	Shanmugam .T.R*, Shibi Sebastian** and Usha Nandhini.S** *Professor, **Senior Research Fellows, Department of Agricultural Economics, TNAU. Email: sunsigeco@gmail.com
77.	Crop residue as manure to sustain soil fertility in rice-wheat cropping system	B.S. Sidhu and V. Beri Dept. of Soils, Punjab Agricultural University, Ludhiana – 141004 bikkarsidhu@yahoo.com
78.	Pesticide use pattern in rice, cost of externalities and technological options(IPM).	Dr.P.Indira Devi, D.Sai Jyothi Department of Agricultural Economics, College of Horticulture, Kerala Agricultural University, Thrissur, Kerala - 680 656 India trc_indira@sancharnet.in
79.	Advanced Techniques in Fertigation: A new tool for Boosting the Production and Resource Use Efficiency in Green Chilli	Mr. B.N. Prabhakara, B.K. Ramachandrappa, H.V. Nanjappa, T.M. Soumya Dept. of Agronomy, University of Agricultural Sciences, GKVK, Bangalore - 65

80.	Temporal growth, instability and trade opportunity of Indian tea in context of global competition	K.C. Talukdar¹ and I.P. Sahewalla² 1. Professor, Department of Agricultural Economics and 2. Associate professor, Department of tea Husbandry and Technology respectively, Assam Agricultural University, Jorhat, India
81.	Effect of de-siltation in irrigation tank system on cropping patten, ground water recharge and economic sustainability	Y.A. Nanja Reddy, Umesh M. Bagari and J. Bore Gowda Agri specialist, water resource specialist, environmental specialist, District Project Unit, Jala Samvardhane Yojana Sangha (JSYS), Govt. of Karnataka, Kolar 563101, Email: yan_reddy@yahoo.com
82.	Technology Advancement including Biotechnology in Sustainable Agricultural Production Systems and Achieving Nutritional Security- Integrated Pest Management	S. Suganya kanna Research Associate, Eruthappan patty, Achanam patty (Post), Vedasandur (Taluk), Dindigul (District) – 624702. Tamil Nadu
83.	Micro initiatives for macro policy	Dr. R.S. Deshpande, Institute for Social and Economic Change, bangalore – 560072, deshpande@isec.ac.in
84.	Evaluating Agricultural Programs/Projects: Challenges and Opportunities	Rama Radhakrishna, Associate Professor, Department of Agricultural and Extension Education, 323 Agricultural Administration Building, The Pennsylvania State University, University Park, PA 16802, Tel: (184) 863-7069, E-mail: brr100@psu.edu Daney G. Jackson, Associate Vice President, Outreach Associate Dean, College of Agricultural Sciences, Director, Penn State Cooperative Extension, 217 Agricultural Administration Building, University Park, PA, USA 16801
85.	The Challenges of Facilitating Sustainable Agriculture Programs in Extension	Daney G. Jackson, Associate Vice President, Outreach, Associate Dean, College of Agricultural Sciences, Director, Penn State Cooperative Extension, 217 Agricultural Administration Building, University Park, PA, USA 16801
86.	Developing, Implementing, and Evaluating Interactive, Computer-based Teaching Modules for Agricultural Courses	Rama Radhakrishna, Associate Professor, Marvin Hall, Professor, Olive Kemirembe, Graduate Assistant, The Pennsylvania State University, University Park, Pa 16802, Tel: (814-863-7069), E-mail: brr100@psu.edu
87.	Progress in Mapping the <i>Arabidopsis</i> ionome	David E. Salt, Center for Plant Environmental Stress Physiology, Purdue University, West Lafayette, IN 47907
88.	Sustainable livelihood security system for farmers	Dilip Gandhi, Program Leader – Income Enhancement Lalit Sharma, Program Leader – Water Management, Ellora Mubashir, Program Leader – Communications, Email: d.gandhi@smsfoundation.org

89.	Long-term collaborations in veterinary medicine with emphasis on curriculum, research, infrastructure and human resource development: MSUCVM-TANUVAS perspective	P. S. MohanKumar , BVSc, PhD Associate Professor, Coordinator of Graduate Studies Department of Patho-biology & Diagnostic Investigation, Neuroendocrine Research Laboratory, College of Veterinary Medicine, Michigan State University, <mohankumar@cvm.msu.edu>
90.	Can butachlor be a component of sustainable rice farming? An Indian perspective	Jay G. Varshney and K. K. Barman National Research Centre for Weed Science, Jabalpur – 482 004, India
91.	Global distance education for sustainable agriculture development	Dr. Surya Gunjal , Visiting Scientist & Distance Education Specialist, "Gunjal, Surya (ICRISAT-iN)" S.gunjal@cgiar.org The Global Open Food & Agriculture University , KMS, ICRISAT, Patancheru - 502 324. Hyderabad , A.P. INDIA . Phone:040-30713456.
92.	Exploration of efficient technology for maximizing the production potential of Potato (<i>Solanum tuberosum</i>) using invaded weeds_	P. Saravanane , Assistant Professor, Pandit Jawaharlal Nehru college of Agriculture & Research Institute, Karaikal, UT of Puducherry- 609 603, India, psaravanane@rediffmail.com
93.	Isolation Of Bioinsecticides From The Striped Tiger Butterfly, <i>Danaus genutia</i> (Lepidoptera: NYMPHALIDAE)	Arunava Das, Chandan Mithra, R.Revanna, A.R.V. Kumar, and K. Chandrashekara , Department of Entomology, College of Agriculture, University of Agriculture Sciences, Gandhi Krishi Vigyana Kendra, Hebbal, Bangalore-65, India. Arunava Das arunavadas1983@yahoo.co.in
94.	Transgenic sesame (<i>Sesamum indicum</i> L.) Development – Detrimental to Indian Economy	N. Shahidhara¹, R. Lokesha¹, D. Teerthaprasad², G.Y. Lokesh¹, C.Chandraeshker³ and B. N. Gnanesh⁴ 1. Plant Tissue Culture and Molecular Biology Laboratory Department of Genetics and Plant Breeding, College of Agriculture, Raichur
95.	Induction of defense related enzymes in <i>trichoderma viride</i> treated sesamum plants in response to infection by <i>macrophomina phaseolina</i>	D. John Christopher, T. Suthinraj, R. Udhayakumar and S. Usharani Department of Plant Pathology, Faculty of Agriculture, Annamalai University, Annamalaiagar – 608 002, Tamilnadu, India., E-mail: johnpp73@rediffmail.com
96.	Participatory Natural Resource Management for Sustainable Agriculture through watershed approach- An Experience of SUJALA Watershed project	Sri. H.R. Srinivasa, IAS and Dr. Govinda Gowda. V Additional Project Director Monitoring & Evaluation Specialist SUJALA Watershed project, Watershed Development Department, Govt. of Karnataka, 8 th floor, Cauvery Bhavan, KHB Building, Bangalore-560 009 E-Mail: sujala@vsnl.net , Phone: 22129208, Fax: 22129207
97.	Organic production Technology for Tomato (<i>Lycopersicon esculentum</i> Mill.)	V. Alex Albert* and V. Krishnasamy , Department of Seed Science and Technology, Tamil Nadu Agricultural University. Coimbatore - 641 003. E-mail: valexalbert@yahoo.co.in

98.	Isozyme Analysis in Interspecific Hybrids of <i>Vigna spp.</i>	N. Prem Kumar, Dr.P. Veerabahiran, Shimna Bhaskaran,II Ph.D Tamil Nadu Agricultural University, Coimbatore-641003 University of Agricultural Sciences, Bangalore. E-mail: premfirst@gmail.com Ph: 09989336526
99.	Assessment of Onion Storage Methods for Extended Shelf-life	N.G. Shah, Dr Narendra G.Shah, nshah@iitb.ac.in CTARA, IIT-Bombay, MUMBAI 400 076 TEL: 2576 7874 / 7870
100	Post Harvest Processing of Chilli in India-Adoption of innovative technologies and cost implications	CH.V.V. Satyanarayana Post Harvest Technology Centre, A N G R Agricultural University Bapatla campus-522101. Andhra Pradesh, India. chsaty77@sancharnet.in
101	Kodagu model forest programme – the first model forest programme for India	Dr. C.G.Kushalapa, Vice Chairman, Kodagu model Forest Trust, College of Forestry, Ponnampet, Kodagu-571216 kushalcg@sancharnet.in
102	Emerging issues for sustainable Agri-food systems in the Thar dessert area of Rajasthan	K. A. Varghese, In-charge, Socio-Economic and Ag. Policy Planning Research Cell (SEAPPRC), MPUAT, Udaipur. rcavarghese@yahoo.com
103	Surface Water and Groundwater Salinity in Agricultural Lands of the Chi River Basin Part II, Khon Kaen Province, Thailand	Kriengsak Srisuk, Thidarat Cotanont, Phayom Saraphirom and Suwanchai Nadee Groundwater Research Center, Faculty of Technology, Khon Kaen University, Khon Kaen, Thailand 4002 kriengsk@kku.ac.th
104	Dynamics of Natural Resources Use and Economic Outcomes in Punjab Agriculture - Degradation, Causes, Impacts and Management Strategies	R.S. Sidhu*, J.S. Sidhu, A.S. Bhullar Associate Professor of Agricultural Economics, Punjab Agricultural University, Ludhiana
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111	Capital Formation in Indian Agriculture: National and State Level Analysis	Ramesh Chand, ICAR National Professor, National Centre for Agricultural Economics and Policy Research, Pusa, Post Box 11305, New Delhi 110012
112	Post harvest management system for sustainable agriculture: Opportunities and Challenges	Raghavan, G.S.V. and Sosle, V.R., Dept. of Bio-resource Engineering Mac Donald Campus, MC Gill University, 21,111, Lake Shore, Ste. Anne-de-Bellevue, QC H9 X3 V9, Canada, E-mail: vijaya.raghavan@mcgill.ca
113	Zero Tillage: an effective Resource Conservation Technology for Sustainable Direct Seeded Rice Production in Karnataka	S.G. Patil¹, Y.R.Aladakatti¹, R.F.Channagoudar¹, N.G.Hanamaratti¹, R.K.Gupta² and J K Ladha³ 1. University of Agricultural Sciences, Dharwad 2. Regional Facilitator, RWC-CIMMYT, India, New Delhi 3. IRRI, India, New Delhi
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120	Sustainability of Ground Water Use through Drip Irrigation in Eastern Dry Zone of Karnataka	T.N. Tulasidas¹, Rameshwar S. Kanwar², N. K. Rajesh Kumar¹, M Mahesha¹, R.A.Krishna Manohar³, V.Manjunath⁴, N. Nagaraj⁴ and P.G. Chengappa⁵ UAS, GKVK, Bangalore
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128	Micro Initiatives and Macro Policy	R S Deshpande and P R Range Gowda Professor and Research Assistant Respectively at Agricultural Development & Rural Transformation Centre, Institute for Social and Economic Change, Bangalore