Due to State Assembly Election the Conference Scheduled for 22\textsuperscript{nd} and 23\textsuperscript{rd} April, 2016 has been Postponed for 13\textsuperscript{th} and 14\textsuperscript{th} August, 2016

**International Conference**

On  
Agriculture, Food Science, Natural Resource Management and Environmental Dynamics: The Technology, People and Sustainable Development  
Organized by  
Bidhan Chandra Krishi Viswavidyalaya, Mohanpur, Nadia, West Bengal, India  
And  
“Krishi Sanskriti, New Delhi, India”  
On  
22\textsuperscript{nd} and 23\textsuperscript{rd} April, 2016  
13\textsuperscript{th} and 14\textsuperscript{th} August, 2016  
Venue:  
Farmers’ Academy and Convention Centre (FACC)  
(Lake Hall, Kalyani)  
Bidhan Chandra Krishi Viswavidyalaya, Mohanpur, West Bengal, India

Prof. Asit Kumar Chakravarti,  
Vice-Chancellor,  
Bidhan Chandra Krishi Viswavidyalaya, West Bengal  
(Patron in Chief)

Prof. Manas Mohan Adhikary,  
Former, Vice-Chancellor,  
BCKV & Professor of Agricultural Extension, BCKV, West Bengal  
(Chairman)

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**Name of Conference Committee:**

<table>
<thead>
<tr>
<th>President</th>
<th>Prof. Jayanta Kumar Das, Prof. &amp; Head, Dept of Agricultural Extension, BCKV, West Bengal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vice-President</td>
<td>Prof. S. K. Acharya, Prof. &amp; Former Head of Agricultural Extension, BCKV, West Bengal (Organizing Secretary)</td>
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<td>Organizing Secretary</td>
<td>Prof. D. Basu, Prof. &amp; Former Director of Extension Education, BCKV, West Bengal (Co-Convenor)</td>
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<tr>
<td>Prof. Amitava Biswas, Prof. of Agricultural Extension, BCKV, West Bengal (Co-Convenor)</td>
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<td>Prof. B. Parashar, Head, Orissa University for Agriculture and Technology, BCKV, West Bengal (Co-Convenor)</td>
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<tr>
<td>Prof. S. Mondal, Prof. of Agricultural Extension, BCKV, West Bengal (Co-Convenor)</td>
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<td>Dr. S. D. Mukhopadhaya, Dept. of Agricultural Extension, Economics and Statistics, Vishwa Bharti (Co-Convenor)</td>
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<td>Dr. A Goswami, Prof., Vet. And Animal Husbandry Extension, WBUAFS (Co-Convenor)</td>
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<td>Dr. K Pradhan, Associate Prof., Agricultural Extension, UBKV (Co-Convenor)</td>
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<td>Prof. Atul Johri, School of Life Sciences, JNU, New Delhi (Co-Convenor)</td>
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<td>Dr. Kalyan Ghadei, Dept. of Ext\textsuperscript{e} Education, B.H.U. (Co-Convenor)</td>
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<td>Dr S S Dana, Prof., Fishery Extension Education, WBUAFS, BCKV, West Bengal (Co-Convenor)</td>
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<tr>
<td>Dr Rupak Goswami, Asst. Professor, Vivekananda University, Narendrapur (Co-Convenor)</td>
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<tr>
<td>Dr P Pal, Prof., Agricultural Extension, UBKV (Co-Convenor)</td>
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<tr>
<td>Dr. Sarita Nanda, Dept. of Biochemistry, Daulat Ram College, University of Delhi (Co-Convenor)</td>
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**Call for Papers and Conference Themes:**

The Organizer cordially invites Abstracts and Full Research Papers for oral/poster presentation from all over the world to participate/present and publish their research papers in the International Conference on Agriculture, Food Science, Natural Resource Management and Environmental Dynamics: The Technology, People and Sustainable Development to provide a platform for researchers, engineers, academicians as well as industrial professionals to present their research results and development activities in Agriculture, Forestry, Horticulture, Aquaculture, Animal Sciences, Food Technology, Biodiversity and Climate Change: Sustainable Approaches.

The conference will bring together leading researchers, entrepreneurs and academicians in the domain of interest. Topics of interest for submission include various subthemes, but are not limited to the conference aims at providing an opportunity for exchange of ideas and dissemination of knowledge among scholars. Contributions are invited from prospective authors from related areas. All contribution should be of high quality, original and not published elsewhere or submitted for publication. During the review period, papers will be reviewed by eminent scholars in the respective areas. All selected papers will be published as chapters in edited book/conference proceeding with ISBN No. and few high-end papers will be published in international journal having ISSN No. and rest of the papers/abstracts will be published in conference proceeding/abstract book which will be issued to authors on the day of conference.
Themes:

Agricultural Sciences:
- Advanced Machine Systems
- Agri ecology & organic agriculture
- Agricultural Biotechnology
- Agricultural Biotechnology regulations, rules & Perceptions,
- Agricultural buildings
- Agricultural Ergonomics
- Agricultural fossil fuel use and rising energy costs,
- Agricultural land availability and ‘peak food’,
- Agricultural pollutions and its control techniques,
- Agricultural Production
- Agricultural systems
- Agricultural waste management
- Agriculture and rural development
- Agriculture biology and plant protection
- Agriculture Economics and Agribusiness Management
- Agriculture Extension and Organizational management
- Agriculture for Sustainable Development,
- Agriculture mechanization and postharvest Technology
- Agro industry start-ups
- Agro-industry
- Agronomy and Crop Sciences
- Animal biotechnology,
- Animal Production, health and Hygiene
- Application of Nano-Technologies in Agriculture,
- Aquaculture and Biosystems Research
- Biodiversity and Agro biodiversity
- Biological natural resource engineering
- Bio-machine systems
- Cell and tissue engineering,
- Cellular and molecular biology,
- Climate change and Agriculture
- Computational Methods and Statistic for Agriculture
- Crop breeding, genetics & genomics,
- Crop sciences
- Domestic animal breeding, genomics & biotechnology,
- Emerging technologies in Agriculture and Livestock
- Energy in agriculture
- Energy, alternative energy and waste Resource management
- Farmland preservation,
- Fertilizers & chemicals
- Field crops
- Financing credits and agricultural subsidies
- Gene regulation and Gene expression databases,
- Geo-informatics in Agriculture
- Green Agriculture
- Hi–tech technologies
- Horticulture and Landscape Architecture
- Impact of Agriculture on Climate Change,
- Industry Transformation - Case Studies
- Information Technology, Automation and Precision Farming
- Intensive growing methods
- Interaction between agricultural production and retailing
- International training and cooperation
- Irrigation & water management
- Large scale and global agribusiness: efficiencies, offerings and deficiencies,
- Logistics of agricultural production
- Nanotechnology and Nano-agriculture
- Nanotechnology in agriculture
- Natural Resources & Sustainable Agriculture,
- Organic Farming and Sustainable livelihood,
- Pharmaceutical Biotechnology,
- Planning and fleet management
- Plant biotechnology,
- Plant design using conceptual design techniques,
- Plant protection
- Plants, seeds & propagation materials
- Post harvest treatment
- Precise agriculture
- Precision farming and variable rate technology
- Principles and practices of sustainable agriculture in new green revolution,
- Prospects of Agro based Renewable Energy,
- Renewable energy in agriculture
- Research & development
- RNA and DNA structure and sequencing,
- Robotics and new technologies
- Role of agro-biotech innovation for national and international competitiveness,
- Rural development
- Seed, fruit & reproductive plant biotechnology,
- Selection and improvement of plants and animals
- Significance of Carbon credit in modern Agriculture,
- Software & hardware
- Soil and agricultural issues,
- Soil and water engineering
- Soil sciences
- Soil, water and Management
- Structures and environment
- Sustainable Agriculture,
- Terramechanics
- Turnkey, joint projects and know–how
- Urban agriculture,
- Water Engineering in Agriculture,
- Watershed design for water quality protection
- Weed control and crop protection
- Shelterbelts
- Silviculture

Forestry:
- Basic Theories
- Deforestation
- Economic Forest
- Emerging issues in precision agriculture and forestry
- Forest Economics
- Forest Genetics and Tree Breeding
- Forest Management
- Forest Protection and Statistics
- Forestry and Agro forestry
- Forestry Engineering
- Global warming on conservation/management of forestry Insects
- Hi –tech technologies
- Horticulture and Landscape Architecture
- Impact of Agriculture on Climate Change,
- Wildlife Protection and Management
- Horticulture
  - Fruit growing
  - Fruits & citrus
  - Greenhouses & horticulture
  - Vegetable growing
  - Viticulture and Oenology
- Aquaculture:
  - Advanced Aquaculture Technology Systems
  - Aquaculture Engineering
  - Aquaculture Management Systems
  - Aquaculture Marketing and Businesses
  - Aquaculture Industry Transformation - Case Studies
  - Aquaculture Production
  - Aquaculture Production and Food Safety
  - Aquaculture Waste Management
  - Biofloc Technology
  - Biotechnology in Aquaculture
  - Disease Control in Aquaculture
  - Ecological Engineering for Aquaculture
  - Feed and Management Technology
  - Food Safety in Aquaculture
  - GPS and GIS technologies for Aquaculture
  - Integrited Multi Tropical Aquaculture
  - Larvae Culture
  - Life Transport Technology
  - Live Feed Culture
  - Organic Aquaculture
  - Post Harvest Technology of Aquaculture Products
  - Traceability of Aquaculture Source Foods
- Animal Science:
  - Animal Agriculture in the Globe
  - Animal Health & Welfare
  - Animal Protein and fibre products
  - Biotechnology in veterinary medicine
  - Clinical sciences
  - Cutting Edge Science for Future Animal Agriculture
  - Emerging public concerns with animal agriculture
  - Environmental constraints to animal agriculture
  - Fundamental sciences
  - Genetics and breeding
  - Global warming on management of medical and veterinary
    Insects
  - Livestock Biotechnology
  - Livestock building design for animal welfare and health
  - Livestock Production
  - Livestock, dairy farming & small ruminants
  - Mammary development and lactation - a vision for functional
    genomics
  - Meat and allied industries
  - Poultry farming
  - Public health and animal production
  - Reproduction, physiology, anatomy
  - Research for improved animal fibre products
- Food & Nutrition Sciences:
  - Agro economical studies and Food processing purposes
  - Amino acids and nitrogenous compounds,
  - Antioxidants and photochemical,
  - Application of artificial intelligence in food engineering
    research and in industry,
  - Beverage and Fermentation Technology,
  - Biocatalysis, organocatalysis and nanobiotechnology,
  - Biomedical Computational drug discovery,
  - Bio-MEMS and microbioreactors,
  - Biomimetic and self-assembled materials,
  - Biosensors and molecular diagnostics,
  - Campus food issues and organizations,
  - Carbohydrate, Proteine and Lipid,
  - Childcare provider feeding practices and nutritional
    socialization,
  - Children’s nutritional knowledge and reasoning
  - Clinical and physiological techniques
  - Community food security and Sustainable food communities.
  - Control and system engineering for food industry
  - Diet-related diseases
  - Diet-related diseases and Enzyme Engineering.
  - Diversion of foods into bio fuels.
  - Drug screening and pharmaceutical synthesis
  - Employment, rural quality of life, prices, import-export,
    commodity exchange markets, licensed warehousing and
    cluster analysis in food and agriculture
  - Environmental Biotechnology, Food & dairy agricultural
    biotechnology.
  - Food bioavailability
  - Food biotechnology
  - Food Engineering and biotechnology
  - Food fortification and supplementation
  - Food information and consumer education
  - Food properties including thermal, chemical and mechanical
    properties
  - Food safety and Bio-process engineering
  - Food safety and traceability technologies, national legal
    infrastructure and food inspection system
  - Food safety, hygiene and Flavours
  - Food Science and Technology
  - Food security and Food systems
  - Food supply transportation and storage, and monitorin the food
    cold chain
  - Food Texture and Rheology
  - Functional foods, nutrition, nutraceuticals & bioactives
  - Genetically modified foods vis-a -is Organic foods.
  - Grazing’ and ‘snacking’ as a social and nutritional practice
  - Heat, mass transfer and fluid flow in food processing
Home meals, fast food and supermarket ‘home meal replacements
Implications of transitions with growing affluence from grains, legumes and pulses, to meat and dairy.
Industrial Biotechnology
Infant feeding
Information technologies in food and agriculture
Laboratory and automation application in food beverage, biotechnology and nutraceutical technologies
Macronutrients/ Micronutrients
Marine & algal biotechnology
Mathematical modelling and software development for
Microorganism technology in food industry
Minerals and trace elements
Molecular gastronomy
Nanoparticles, nanocomposites, and nanoporous materials for bio-applications
New strategies in food packaging
Non-thermal food processing
Nutrition and health of the public
Nutrition for people with special needs
Nutrition policy
Nutritional status of various ages
Physiology and endocrinology
Protein and gene delivery systems
Proximate composition
Recent product and process developments nanotechnologies in food and agriculture
Reproduction and lactation
Ruminant nutrition and Non-ruminant nutrition
School lunch reform and midday meal schemes.
Separation and purification processes for food production
Socioeconomic status
Sports nutrition
Urbanization, population growth and the global food supply
Waste management in food production and environmental sustainability

Biodiversity:
Conservation of Biodiversity and Sustainable use of Medicinal Plants
Awareness, Best Practices, and Ad Hocs
Climate change and Plants Reservation
Ecosystem Services and Biodiversity
Eco-Theology and Plant Ethics
Education and Capacity Building
Global warming on agricultural Insects and food security for rural population
Global warming on biotechnological advancement on insects
Global warming on insect migration and biodiversity conservation
Global warming on malaria, dengue and filariasis and human
Global warming on marine ecosystem and aquatic sustainability
Global warming on pesticide toxicity and including novel and nano- insecticides
Global warming on Taxonomical implications on the biodiversity of species

Climate Change and Environmental Engineering:
A Changing Relationship
Cities and Climate Change: Issues of Preparedness, Adaptability and Management
Development and Disaster Management: Adaption and Mitigation
Development and Rivers
Development, Biodiversity and Eco-system Services
Displacement, Resettlement and Rehabilitation
Environmental Impact Assessment: Success and Failure
Environmental Legislation and Enforcement: Lessons Learnt
Ethno-botanical Traditional Knowledge in Changing Environmental Conditions
Food Security, Poverty, Inequality and Marginalization
Green Economy and Sustainable Development
Gross Domestic Product v/s Gross National Happiness
Impact of Climate Change on Traditional Agricultural Practices
Socio-ecological & Human Dimensions of Development
Advanced treatment of water and secondary effluents (membranes, adsorption, ion exchange, oxidation etc)
Advances in biological, physical and chemical processes
Aesthetic quality of drinking water (taste, odors)
Air emission trading
Atmospheric modelling and numerical prediction
Atmospheric physics
Bio-engineering
Carbon capture and storage
Clean technologies
Geophysics
GPS and GIS technologies
Ground water management
Habitat reconstruction
Health and the Environment
Health related organisms
Hydrology
Industrial wastewater treatment
Institutional development
Integrated ecosystems management
Interaction between pollutants
- Life cycle analysis
- Management and regulation of point and diffuse pollution
- Management of water treatment residuals
- Meteorology
- Modelling and decision support tools
- Monitoring and analysis of environmental contaminant
- On site and small scale systems
- Optimization of collection systems
- Ozone layer depletion
- Physical oceanography
- Process modelling
- Public participation
- Regulatory practice, water quality objectives standard setting, water quality classification
- Renewable sources of energy-energy savings
- Resource management
- Satellite applications in the environment
- Soil decontamination
- Suspended and fixed film biological processes
- Sustainable cities
- Toxicity assessment and epidemiological studies
- Transboundary cooperation
- Water resources and river basin management

**Global environmental change and ecosystems management**
- Biofuels
- Carbon capture and storage
- Climate and climatic changes
- Global warming
- Integrated ecosystems management
- Ozone layer depletion
- Satellite applications in the environment

**Environmental restoration and ecological engineering**
- Biodiversity conservation
- Bio-engineering
- Deforestation
- Eco-technology
- Ground water remediation
- Habitat reconstruction
- Landscape degradation and restoration
- Soil decontamination
- Wetlands

**Environmental sustainability**
- Clean technologies
- Environmental systems approach
- Life cycle analysis
- Renewable sources of energy-energy savings
- Resource management
- Sustainable cities

**Health and the Environment**
- Biodegradation of hazardous substances
- Hazardous substances and detection techniques
- Health related organisms
- Indoor air pollution
- Quality guidelines, environmental regulation and monitoring
- Toxicity assessment and epidemiological studies

**Wastewater and sludge treatment**
- Advances in biological, physical and chemical processes
- Anaerobic treatment
- Fate of hazardous substances
- Nutrients removal
- On site and small scale systems
- Process modeling
- Sludge treatment and reuse
- Storm-water management
- Suspended and fixed film biological processes

**Air pollution and control**
- Air emission trading
- Atmospheric modelling and numerical prediction
- Control technologies
- Emission sources
- Interaction between pollutants

**Solid waste management**
- Leachate treatment
- Legal, economic and managerial aspects of solid waste management
- Management of hazardous solid waste
- Optimization of collection systems
- Soil depletion, exhaustion, erosion and fertilizers; and remedies
- Technical aspects of treatment and disposal methods (landfilling, thermal treatment etc)
- Waste valorization

**Water treatment and reclamation**
- Advanced treatment of water and secondary effluents
- (membranes, adsorption, ion exchange, oxidation etc)
- Aesthetic quality of drinking water (taste, odors)
- Disinfection and disinfection by-products
- Effect of distribution systems on potable water quality

**Environmental dynamics**
- Atmospheric physics
- Ecological Risk Assessment
- Environmental Friendly Materials
- Environmental impact assessment
- Impact of Food Security Bill – India
- Legislation and Forecasting
- Modeling, Simulation and Optimization
- Natural resources management
- Renewable energy sources
- Role of GIS application in Land use & land cover change
- Sustainable Tourism
- Technical aspects of Treatment and Disposal Methods
- The environmental impact of seafood farms

**Land Reclamation, Earth Observation & Surveying**
- Disaster management
- Earth observation and geographic information systems
- Sustainable development of rural area
Topography and cadastre

Management and Engineering in Rural Areas
- Production economics
- Farm management and agromarketing
- Agricultural policies
- AgriBusiness and agricultural extension
- Agritourism and rural development
- Environmental economics

Abstract Submission:
Abstracts not exceeding 250-300 words on any of the aforesaid themes should be sent to the Organizing Secretary through email at info.conferencebckv@gmail.com on or before 1st August, 2016.

Submission of Full Length Research Paper
Full length research paper, maximum in 8 pages and copyright form should be submitted together as separate attachment latest by 3rd August, 2016 through email at - info.conferencebckv@gmail.com

Submission of Registration form:
Submission of Registration fees latest by 5th August, 2016. Registration process can be initiated after receiving acceptance letter of full paper.

Accommodation
One day free Accommodation will be available to the limited no. of out station delegates at BCKV guest house (Farmers' Training Centre, BCKV, Kalyani, Nadia) and nearby other guest houses/hotels around conference venue (check out time noon to noon). The Tariff rate for next day and subsequent day accommodation will be on actual basis. To and fro transportation facility from guest house to the conference Venue will be provided by the organizer. The list of nearby hotels will be sent to delegates in due course of time.

NOTE: In case Research article is accepted by the editorial committee it will be published and released on the day of conference. In case the delegates are not able to physically present their paper due to some or other reason his/her research paper will be published (in absentia) and published copy along with certificate will be dispatched to his/her correspondence address by post just after the conference at no extra cost. All communication should be by e-mail/online only (no hard copy is required to be posted).

Mandatory steps to be followed:-
1. In case of multi authored research paper, at least one Registration is mandatory.
2. In case other author/co-author wish to physically attend the conference they need to pay full Registration fees individually, separate publication of research article as chapter/Journal & Certificate along with the conference kit will be issued to them. Co-Authors are requested to fill & submit separate Registration forms in case they are physically attending the conference.
3. Charges for extra copy of publication of research article as chapter/Journal &Certificate for other Co-Author (if required) should be paid along with preliminary Registration by the corresponding author.
4. Listener/Accompanying person are not eligible for free accommodation even for one night. However if they require they have to pay Accommodation charges even for one day.
5. All Selected papers will be available online after 15 to 20 days of conference date over, in order to download the papers the authors need to go in the publication section of Krishi Sanskriti website.

Registration
The participants are requested to register by sending the duly filled Registration form through e-mail along with their research paper and registration fees (through RTGS/ Wired Transfer or Online Transfer).

Bank Details mention below for RTGS/ Wired Transfer or Online Transfer:
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IFSC Code: CNRB0001484
Swift Code: CNRBINBBID

For further information and Latest Updates, visit our Website
http://www.bckv.edu.in
Or http://www.krishisanskriti.org/nrm.html

Dr. G. C. Mishra
Secretary
Email: info.conferencebckv@gmail.com
Contact No.: +91-8527006560