



**Dr. D. D. Patra,**  
Vice-Chancellor,  
Bidhan Chandra Krishi  
Viswavidyalaya,  
West Bengal  
(Patron in Chief)

**Prof. S.K. Acharya,**  
Department, Agricultural  
Extension, BCKV  
**Organizing Secretary**

*International Conference  
On*

## **Agriculture and Allied Sciences: The Productivity, Food Security and Ecology**

*Organized by*  
**Department of Agricultural Extension,  
Bidhan Chandra Krishi Viswavidyalaya,  
Mohanpur, Nadia, West Bengal, India**

*And*  
**“Krishi Sanskriti, New Delhi, India”**

*On*  
**13<sup>th</sup> and 14<sup>th</sup> August, 2018**

*Venue:*  
**Farmers' Academy and Convention Centre (FACC)  
(Lake Hall, Kalyani)  
Bidhan Chandra Krishi Viswavidyalaya, Mohanpur,  
West Bengal, India**

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**Prof. D. Basu,**  
Head of the Department,  
Agricultural Extension  
Bidhan Chandra Krishi  
Viswavidyalaya,  
West Bengal  
(Chairman)

**Dr.G.C. Mishra,**  
President, Krishi Sanskriti,  
New Delhi  
**Organizing Secretary**

Patron	Prof.M.M.Adhikary, BCKV
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Coordinator	Prof.Arunashis Goswami, W.B.U.A.F.S Prof.S.S. Dana,W.B.U.A.F.S Dr.S.D. Mukhopadhyay, Visva-Bharati Dr.Koushik Pradhan, UBKV Prof.P. Pal, UBKV Dr.A. Mahammad, NDRI Dr.Kalyan Ghadei, BHU Prof.B. Parashar, OUAT

### **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 and Allied Sciences: The Productivity, Food Security and Ecology** 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. which will be issued to authors on the day of conference. **There will be best paper presentation awards in Oral/Poster category in each session.**

### **Themes:**

#### **Agricultural Sciences:**

- Agri ecology & organic agriculture
- Agricultural Biotechnology
- 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
- Agro industry start-ups
- Agronomy and Crop Sciences
- Animal biotechnology,
- Animal Production, health and Hygiene
- Application of Nano-Technologies in Agriculture,
- Biodiversity and Agro biodiversity
- Biological natural resource engineering
- Cell and tissue engineering,
- Cellular and molecular biology,
- Climate change and Agriculture
- Crop breeding, genetics & genomics,
- Crop sciences
- Domestic animal breeding, genomics & biotechnology,
- Farmland preservation,
- Fertilizers & chemicals

### Field crops

- Gene regulation and Gene expression databases,
- Geo-informatics in Agriculture
- Green Agriculture
- Intensive growing methods
- Irrigation & water management
- Nanotechnology in agriculture
- Natural Resources & Sustainable Agriculture,
- Plant protection
- Plants, seeds & propagation materials
- Post harvest treatment
- Renewable energy in agriculture
- RNA and DNA structure and sequencing,
- Seed, fruit & reproductive plant biotechnology,
- Selection and improvement of plants and animals
- Significance of Carbon credit in modern Agriculture,
- Soil and agricultural issues,
- Soil and water engineering
- Soil sciences
- Soil, water and Management
- Sustainable Agriculture,
- Urban agriculture,
- Weed control and crop protection

### 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
- Shelterbelts
- Silviculture

- Wildlife Protection and Management
- Silviculture
- Physiology and Genetics
- Forest Operations and Engineering
- Forest Assessment, Modelling and Management
- Wood Science and Technology
- Forest Products
- Social Aspects of Forests and Forestry
- Forest Conservation
- Forest Environment
- Forest Ecology, Soil and Water Relations

### Horticulture

- Fruit growing
- Fruits & citrus
- Greenhouse, Floriculture and Landscaping for aesthetics and economy
- Vegetable and Fruit production for food and nutritional security
- Herbs, spices, medicinal and aromatic crops for securing health
- Plantation crops for export and industrial initiatives
- Post harvest technology of Horticultural crops
- Scope of doubling income and converting waste to wealth through horticulture
- Greenhouses & horticulture
- Vegetable growing
- Viticulture and Oenology

### Aquaculture:

- Advanced Aquaculture Technology Systems
- Aquaculture Engineering
- Aquaculture Management Systems
- Aquaculture Industry Transformation - Case Studies
- Aquaculture Production
- Aquaculture Production and Food Safety
- Aquaculture Waste Management
- Biotechnology for Aquaculture
- Disease Control in Aquaculture
- Ecological Engineering for Aquaculture
- Feed and Management Technology
- Food Safety in Aquaculture
- Larvae Culture
- Organic Aquaculture
- Post Harvest Technology of Aquaculture Products
- Animal Health & Welfare
- Animal Protein and fibre products
- Biotechnology in veterinary medicine
- Emerging public concerns with animal agriculture
- Genetics and breeding
- Livestock, dairy farming & small ruminants
- Mammary development and lactation - a vision for functional genomics
- Meat and allied industries
- Poultry farming
- Research for improved animal fibre products
- Technologies of animal husbandry
- Technologies of the agro food products processing
- The post-genomic future for genetic selection of livestock
- Veterinary & feeding system
- Veterinary education
- Wild life management, fishery and aquaculture



## **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, Protine 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 Texture and Rheology
- 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
- New strategies in food packaging
- Non-thermal food processing
- Nutrition and health of the public
- Nutrition policy
- Nutritional status of various ages
- Physiology and endocrinology
- Protein and gene delivery systems
- Reproduction and lactation
- Socioeconomic status
- Sports nutrition
- Waste management in food production and environmental sustainability

## **Biodiversity:**

- Conservation of Biodiversity and Sustainable use of Medicinal Plants
- Climate change and Plants Reservation
- Ecosystem Services and Biodiversity
- Eco-Theology and Plant Ethics
- 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
- Global warming on wetland ecosystem management and pollution control
- Herbarium, Museums and Botanic Gardens
- In-Situ and Ex-Situ Conservation
- Protected and Reserved Areas, IPAS
- Scientific Research an Development
- Social Media and Information
- Taxonomy and Wild Plant Biology
- 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
- Food Security, Poverty, Inequality and Marginalization
- Socio-ecological & Human Dimensions of Development
- Atmospheric modelling and numerical prediction
- Atmospheric physics
- Carbon capture and storage
- Climate and climatic changes
- Control technologies
- Disinfection and disinfection by- products
- Ecological Engineering
- Economic instruments
- Eco-technology
- Effect of distribution systems on potable water quality
- Geophysics
- GPS and GIS technologies
- Ground water management
- Habitat reconstruction



- Hydrology
- 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
- Ozone layer depletion
- Process modelling
- 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

#### **Environmental restoration and ecological engineering**

- Biodiversity conservation
- Bio-engineering
- Deforestation
- Ground water remediation
- Landscape degradation and restoration
- Wetlands

#### **Environmental sustainability**

- 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
- Waste valorization

#### **Water treatment and reclamation**

- Advanced treatment of water and secondary effluents
- Aesthetic quality of drinking water (taste, odors)
- Disinfection and disinfection by- products

#### **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
- Agri Business 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](mailto:info.conferencebckv@gmail.com) on or before **31<sup>st</sup> July, 2018**.

#### **Submission of Full Length Research Paper**

Full length research paper, maximum in 7 pages (including references) and copyright form should be submitted together as separate attachment latest by **3<sup>rd</sup> August, 2018** through email at - [info.conferencebckv@gmail.com](mailto:info.conferencebckv@gmail.com)



### Submission of Registration form:

Submission of Registration fees latest by **6<sup>th</sup> August, 2018**. Registration process can be initiated after receiving acceptance letter of full paper.

### **Accommodation**

Accommodation will be available to the limited no. of out station delegates at BCKV guest house (Farmers' Training Centre, BCKV, Kalyani, Nadia) on payment basic that is Rs. 400.00/delegate/day on first come first serve basic (**Advance intimation and booking through hospitality convener**).

**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

### 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 or Online Transfer**)

Bank Details mention below for **RTGS or Online Transfer**:

**Beneficiary Name** : Krishi Sanskriti  
**Bank Name** : Canara Bank  
**Bank Address** : Jeet Singh Marg, New Delhi  
**Account No.** : 1484101026988  
**Account Type** : Savings  
**IFSC Code** : CNRB0001484  
**Swift Code-** : CNRBINBBID

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.



### **Registration Charges:**

Categories	Indian Delegates	SAARC/ African Country Delegates	Rest of the countries
Academic faculty/Industrial Delegates	3500 INR	100 USD	200 USD
Research Scholars(Ph.D) / NGO Representative	2500 INR	75 USD	150 USD
Students(B.Tech/M.Tech /M.Sc etc)	2000 INR	50 USD	100 USD
Printing of Additional Pages as chapter in edited book/in Journals	400 INR	10 USD	15 USD
Listener / Accompanying Member (only Indian Delegates)	1500 INR	**	**
Print copy of research article as chapter in edited book/Journal & Certificate (additional copy) for Co-Authors (if required in absentia)	700 INR	20 USD	30 USD
Only Print copy of research article as chapter in edited book /Journal (additional copy) for Co-Authors (if required in absentia)	500 INR	15 USD	20 USD
Only Certificates (Co-Authors in absentia)	400 INR	10 USD	15 USD
Additional Research paper for same authors	1500 INR	25 USD	30 USD

**For further information and Latest Updates, visit our Website**

<http://www.bckv.edu.in/>

Or

<http://www.krishisanskriti.org/bckv18.html>

**Dr. G. C. Mishra**

**Organizing Secretary**

**Email: [info.conferencebckv@gmail.com](mailto:info.conferencebckv@gmail.com)**

**Contact No. : +91-8527006560**