



## International Conference

on

# Recent Advances in Agriculture, Aquaculture, Food Technology, Environmental Dynamics and Climate Change (AFTEC-2019)

Organized by

“Dr. G. C. Mishra Educational Foundation”

On

2<sup>nd</sup> March 2019

Venue: Jawaharlal Nehru University,  
New Delhi

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### CALL FOR PAPERS

AFTEC-2019 welcome scholars and researchers working in the field of Agriculture, Aquaculture, Food Technology, Environmental Dynamics and Climate Change from all over the world to attend the conference and share your experiences and lessons with other enthusiasts, and develop opportunities for cooperation.

The Organizer cordially invites Abstracts and Full Research Papers for oral/poster presentation to participate/present and publish their research papers and development activities in Agriculture, Forestry, Horticulture, Aquaculture, Animal Sciences, Food Technology, Biodiversity and Climate Change: Sustainable Approaches.

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 which will be issued to authors on the day of conference.

### Themes:

- 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
- Agronomy and Crop Sciences
- Animal biotechnology,
- Animal Production, health and Hygiene
- Application of Nano-Technologies in Agriculture,
- Aquaculture and Bio systems 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
- 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
- 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

### **Aquaculture:**

- Advanced Aquaculture Technology Systems
- Aquaculture Engineering
- Aquaculture Management Systems
- Aquaculture Marketing and Business
- Aquaculture Industry Transformation - Case Studies
- Aquaculture Production
- Aquaculture Production and Food Safety
- Aquaculture Waste Management
- Biofloc Technology
- Biosecurity in Aquaculture
- Biotechnology for Aquaculture
- Disease Control in Aquaculture
- Ecological Engineering for Aquaculture
- Feed and Management Technology
- Food Safety in Aquaculture
- GPS and GIS technologies for Aquaculture
- Integrated Multi Tropical Aquaculture
- Larvae Culture

- Life Transport Technology
- Live Feed Culture
- Organic Aquaculture
- Post Harvest Technology of Aquaculture Products
- Traceability of Aquaculture Source Foods
- 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, organ catalysis and nanobiotechnology,
- Biomedical Computational drug discovery,
- Bio-MEMS and microbio reactors,
- Biomimetic and self-assembled materials,
- Biosensors and molecular diagnostics,
- Campus food issues and organizations,
- Carbohydrate, Protein 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 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 monitoring the food cold chain
- Food Texture and Rheology
- Functional foods, nutrition, nutraceuticals & bioactives
- Genetically modified foods vis-a-vis 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

### **Environmental Engineering and Climate Change:**

- 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
- 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
- Emission sources
- 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 modeling
- 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
- Tran boundary 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 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

### **Important Dates**

**Last date of Abstract Submission:**

**25<sup>th</sup> February 2019.**

**Last date of Full Length Research Paper & Copyright Form submission:**

**26<sup>th</sup> February 2019.**

**Last date of Submission of Registration Details:**

**27<sup>th</sup> February 2019.**

### **Accommodation**

Free one day Accommodation will be available to the limited no. of out station non N.C.R. delegates at nearby guest houses/hotels around conference venue.

The Tariff rate for next day and subsequent day accommodation is as follows: Double-bed Room @ Rs. 900/- per person (Indian non N.C.R. delegates) and 35 USD for Foreign delegates on sharing basis per day (check out time noon to noon).

### **Mandatory steps to be followed:-**

1. Abstract should be maximum 300 words, full length research paper should be maximum 6 pages.
2. In case of multi authored research paper, at least one Registration is mandatory.
3. In case other author/co-author wish to physically attend the conference they need to pay full Registration fees individually, separate 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.
4. Charges for extra copy of Journal/ Certificate for other Co-author (if required) should be paid along with preliminary Registration by the corresponding author.
5. Co-Authors will not be considered as accompanying person. Listeners are not entitled for free accommodation (it will be on paid basis). However they will be issued conference kit and participation certificate.
6. 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.

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 mentioned below for RTGS/ Wired Transfer or Online Transfer:

**Beneficiary Name** : Dr. Govind Chandra Mishra Educational Foundation  
**Bank Name** : Canara Bank  
**Bank Address** : Jit Singh Marg, New Delhi  
**Account No.** : 1484101037210  
**Account Type** : Saving  
**IFSC Code** : CNRB0001484  
**Swift Code-** : CNRBINBBID

### Registration

Registration Charges:

Categories	Indian Delegates	Rest of the countries
Academic faculty/Industrial Delegates	3000 INR	250 USD
Research Scholars(Ph.D.)	2500 INR	200 USD
Students(UG and PG)	2000 INR	150 USD
Printing of Additional Pages as chapter in edited book/proceeding /in Journals	400 INR	20 USD
Listener / Accompanying Member (only Indian Delegates)	1000 INR	**
Print copy of research article as chapter in edited book/ proceeding/ Journal & Certificate (additional copy) for Co-Authors (if required in absentia)	700 INR	30 USD
Only Print copy of research article as chapter in edited book/ proceeding /Journal (additional copy) for Co-Authors (if required in absentia)	400 INR	25 USD
Only Certificates (Co-Authors in absentia)	400 INR	20 USD
Additional Research paper for same authors	1000 INR	35 USD

**\*\*Foreign Participants as listener are not allowed, only authors from foreign country/countries will be allowed in this conference.**

**Dr. V. V. Ramanan**  
Organizing Secretary

**Dr. Vikas Rai**  
Convener

**Dr. S.K. Yadav**  
Conference Chair

For further information and Latest Updates

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