



*International Conference
On*

**“Basic/Applied Sciences, Bioprocess Techniques, Environmental Engineering
and Clean Energy Technologies for Sustainable Swachha Bharat”**

(SYNERGY-2019)

Organized by:

“Krishi Sanskriti”

on

9th February 2019

Venue:

Jawaharlal Nehru University, New Delhi

CALL FOR PAPERS AND CONFERENCE THEMES:

SYNERGY-2019 will enlighten the field of **Sciences, - Bioprocess, Environment and Energy**. The main theme of the conference covers a wide range of critically important sessions. **SYNERGY-2019** would provide a platform for the interaction between the Scientist communities around the world and aims in establishing pollution free sustainable environment by accelerating the cutting edge Technologies.

SYNERGY-2019 provides the combined arena of government-academia-industry to incorporate all potential aspects in approaching one-foot step ahead towards **MAKING SUSTAINABLE SWACHHA BHARAT**

The Organizer cordially invites abstracts and full length research papers for oral/poster presentation from all over the World to participate in the **SYNERGY-2019** which is the premier forum for the presentation of new advances and research results in the fields of theoretical, experimental, applied aspects. 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 proceedings having ISBN and few high-end papers will be published in international Journal having ISSN which will be issued to authors after publication.

Natural/Applied Sciences

- Astronomy
- Chemistry
- Earth sciences
- Environmental sciences
- Physics
- Ecology
- Electrodynamics
- Mathematics
- Mathematics for Chemistry
- Meteorology
- Nuclear Physics
- Geometric

- Algebra Quantum
- Statistics
- Statistical Mechanics
- Computational Physics
- Electromagnetic
- Marine Hydrodynamics
- Mechanical Vibration
- Multibody Mechanics
- Nuclear Fusion
- Physics and Technology
- Optics
- Atomic
- Molecular and optical physics
- Aeroacoustics
- Engineering Acoustics
- Inorganic Chemistry
- Biochemistry
- Soil Science
- Solar System
- Stellar Astrophysics
- Stellar Scintillation
- String Theory
- Urban Forestry
- VCE Chemistry
- Volcanoes
- Geology
- Paleontology
- Affective neuroscience
- Anatomy
- Biomedical science
- Biocomputers
- Biocontrol
- Biodynamics
- Bioinformatics
- Biology
- Biomechanics
- Biomaterials
- Biomonitoring
- Biophysics
- Biopolymers
- Biotechnology
- Botany

- Cell biology
- Cognitive neuroscience
- Computational neuroscience
- Conservation biology
- Developmental biology
- Ethology
- Environmental science
- Evolutionary biology
- Evolutionary genetics
- Food science
- Genetics
- Genomics
- Health sciences
- Immunogenetics
- Immunology
- Immunotherapy
- Marine biology
- Medical devices
- Medical imaging
- Microbiology
- Molecular biology
- Neuroethology
- Neuroscience
- Oncology
- Optometry
- Parasitology
- Pathology
- Pharmacogenomics
- Pharmacology
- Physiology
- Population dynamics
- Proteomics
- Sports science
- Structural biology
- Systems biology
- Zoology

Bioprocess Techniques

- Bioprocess: advance approaches for better quality product
- Enzymes of Industrial importance
- Biomass Processing
- Bioprocess for Food and Fermentation

Environmental Engineering

- Architectural Environment & Equipment Engineering
- Carbon Abatement Technologies[CATs]
- Carbon capture technologies, CO₂ transport, storage and use
- Catalytic converters
- Clean Production Process
- Co-firing with a CO₂-neutral biomass
- Contaminated land management and site remediation
- Cultivation and Conservation of Forest
- Designer shopping Cloth bags
- Electrostatic precipitators
- Environmental Analysis and Monitoring
- Environmental Chemistry and Biology
- Environmental impact assessment and mitigation

- Environmental Materials
- Environmental Planning and Assessment
- Environmental policy and regulation development
- Environmental Protection
- Environmental Safety and Health
- Floating, ecological, multi-power source desalination plant
- Geographic Information and Remote Sensing Science
- Global Environmental Facility
- Global Practices of Environmental engineering law
- Green IT concept
- Hazardous waste management
- Honey bucket systems
- Hydrology and Water Resources Engineering
- Hyper-sound water-purifying system
- Land Resources Environment and Urban Planning
- Noise and Vibration Control
- Organic production of high-value products from seaweed
- Plant Protection
- Pollution Control Project (Air, Water, Solid)
- Reactive organic gases (ROG)
- Recycled container housing
- Reusing instead of recycling packaging
- Saline aquifers
- Scrubbers
- Soil and Water Conservation and Desertification Control
- Solid waste management
- Supercritical and IGCC coal-fired power plant
- Treadmills that convert the rotation of the belt into electricity
- Underpinning technologies
- Volatile organic compounds (VOC)
- Waste Disposal and Recycling
- Wastewater conveyance and treatment
- Water Supply and Drainage Engineering
- Water supply and treatment

ADVANCEMENT IN ENERGY

- Advances in Green Energy
- Energy Harvesting and Conservation
- Energy Conversion Techniques
- Energy Harvesting and Conservation
- Future Energy Technologies
- Recent Advances In Renewable Energy Generation
- Conservation (Tidal and Wave)

Energy and materials

- Advanced materials for coal fired thermal power plants
- Surface Engineering of Materials
- Materials for energy Saving-Thermoelectrics
- Novel illumination sources for efficient lighting & Materials
- modeling and theoretical aspects

Greening the Fossil Fuels

- Sustainable coal use and clean coal technologies
- Natural gas research and development
- Carbon and Methane capture, storage and utilization
- Enhance oil/gas recovery
- Petroleum engineering

Green Energy in Transport

- Advance bio-fuel for a sustainable heavy-duty transport and aviation
- Bio-fuels in developing economies
- Hybrid vehicles and its integration

Optimization for energy markets

- Identify your risk exposure on the market and enhance portfolio management
- Gain practical insights into the application of new regulations in place
- Assess the role of renewable production and its impact on the portfolio

Renewable Energy

- New Perspectives of Renewable Energy
- Biomass Industries
- Heating and Cooling Applications
- Hydro power
- Geothermal, Hydraulic
- Energy and heat transfer
- Energy storage & management
- Thermal Energy
- Algorithms, complexity and stability
- Solar cell technology, Solar cell materials, testing and efficiency
- Nanotechnology applications to RE
- Biogas and biomass
- Integrated energy systems
- Regional issues, economics and policy

Hydrogen & Fuel Cell

- Hydrogen Energy Systems
- Hydrogen Supply and Storage
- Hydrogen End-Use Technology
- Hydropower Development and Utilization

Lighting Quality & Energy Efficiency

Lighting Quality & Energy Efficiency

- International energy saving initiatives
- National and regional energy saving programs
- Cost effectiveness of lighting installations
- Ecological footprint of lighting

Interior applications

- Efficiency and visual perception quality
- Day lighting and Visual Comfort

Light and Vision

- Mesopic vision
- Lighting for the elderly and visually impaired
- Colour rendering

Photobiological Effects

- Circadian photoreception and responsivity
- Lighting and photobiological safety

Photometry and Measurements

- Luminance measurement with emphasis on imaging measurement devices

- Mesopic photometry
- Measurements of photobiological effects
- Colorimetry

Energy Innovation for the Development of New Energy Sources

- Fossil fuel applications
- IT solutions for energy sector

Modeling and Simulation of Energy Systems

- Operations research applications on energy systems
- Decision making in energy systems

Energy Markets and Demand Response

- Energy market liberalization; progress on grid operators
- Unbundling
- The internal energy market - where are we, what needs to be done
- Power market design (e.g. Capacity Markets)
- Cross border trade and developments- energy exchange
- Competition in wholesale, retail and balancing markets
- Carbon markets

Energy Management

- Intelligent energy management : technologies and Challenges
- Natural gas distribution sector
- Future customer services
- Energy efficiency and management
- Operation and maintenance in energy plants

Energy Economics

- Finance of energy
- Financial support, pricing, and regulation schemes (e.g. Feed-in tariffs)
- Risk management

Energy Systems

- Low carbon heat and power (CCS, Nuclear, Wind, Solar, etc.)
- Energy storage and network balancing
- Carbon pricing and emissions trading
- Computing, data and energy system modeling
- Energy Transmission and Distribution
- Regional Integration Projects
- Energy-Environment Interaction
- Energy and Exergy Analyses
- Clean coal technology and IGCC, fluidized bed systems
- CO2 Capture and Storage, CO2 and Emission Issues,
- Combustion system modeling and analysis, clean combustion
- Greenhouse cultivation, renew-able energy in agriculture
- Remote sensing of hazard Warnings and mitigation
- Waste to energy and its management
- Natural gas water table content of basic research
- Alternative energy technologies and sources
- Energy process and system modeling and optimization

Green technology, Renewable energy and Environmental protection

- Climate and climatic changes
- Corporate Responsibility and Sustainable Development
- Economic and Social aspect of Sustainable Development
- Energy and Environment Energy Policy, Planning & Management
- Entrepreneurship, Management and Sustainable Development
- Environmental policy in developing countries
- Environmental restoration and ecological engineering
- Global warming Green Energy Options
- Health and the Environment
- Nuclear Energy Fission & Fusion
- Renewable Energy Standards
- Sustainable Development and Education

Advanced Energy Technologies

- Nuclear Energy Application: Power Generation, Desalination
- Nuclear Materials and Fuels
- Energy From the Space, Dark Energy

Fuels and Combustion

- Emissions from ICE and their control
- Alternative fuels
- NG as fuel for rural transportation
- Bio-diesel fuels
- Fuel additives

Solar Photovoltaic Devices and Systems

- Next Generation (Nano) Photonic and Cell Technologies
- Laser Material Processing for Solar Energy Devices

Wind Energy

- Wind Power Development Challenges:- Intermittency, RPS, PPAs
- Wind Credits & Incentives (PTCs)
- Managing a Wind Farm
- Connecting Wind to the Grid
- Offshore Wind Power
- Optimizing Wind Power Resources

International Convergence on energy

- International Organization and Energy Convergence
- Transmission Networks and Regional Convergence
- Regional and International Energy Flows
- Energy Diplomacy and National Security
- Global Crisis and Energy-Dependent-Economies

Last date of Abstract Submission:

4th February 2019.

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

5th February 2019.

Last date of Submission of Registration Details:

6th 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).

To and fro transportation facility from guest house to the conference Venue will be provided by the organizer.

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. -

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:**

| | |
|-------------------------|-------------------------------------|
| 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 |

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.**

For further information visit our

E-mail: info.energyconference@gmail.com

Website: <http://www.krishisanskriti.org/syneregy.html>

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