



*International Conference
On*

**Innovative Technology in, Chemical, Bioprocess, Textile,
Mining Engineering, Energy Technologies and Environmental
Dynamics for Sustainable Development
(TECHNOVA-2017)**

Supported by:



Organized by
“Krishi Sanskriti Publications”

on
30th December 2017

Venue:
**Jawaharlal Nehru University,
New Delhi**

CALL FOR PAPERS AND CONFERENCE THEMES:

The Organizer cordially invites abstracts and full length research papers for oral/poster presentation from all over the World to participate in the *International Conference on Innovative Technology in, Chemical, Bioprocess, Textile, Mining Engineering, Energy Technologies and Environmental Dynamics for Sustainable Development (TECHNOVA-2017)* is the premier forum for the presentation of new advances and research results in the fields of theoretical, experimental, applied aspects. The conference will bring together leading researchers, Entrepreneurs and Academicians in the domain of interest from around the world. 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 for Sustainable Development. 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.

Conference Themes

Themes:

Chemistry and Chemical Engineering Fundamentals

- Chemical engineering equipment design and process design, Catalysis & reaction engineering
- Chemical engineering fundamentals
- Chemical reaction engineering
- Distillation, absorption and extraction, Ionic liquids/electrolyte solutions
- Interfacial & colloidal phenomena
- Particulate systems, Rheology, Multifase flows
- Physical, Theoretical and Computational Chemistry, Chemical engineering educational challenges and development

- Transport phenomena in porous/granular media, Membranes and membrane science, Crystallization

Bioprocess Engineering and Application Biology

- Biochemical Engineering, Biotechnology
- Biotechnology applied to production of new and better quality food
- Conservation biology, Developmental biology, Evolutionary biology, Evolutionary genetics, Food science
- Delivery of the final product
- Energy and environment, Forest product processing, Milk product processing
- Health sciences, Immunogenetics, Immunology, Medical imaging, Molecular biology, Neuroethology, Neuroscience, Pharmacogenomics, Pharmacology, Structural biology
- Improvement of environmental remediation processes, Food process technology and engineering
- Physical chemistry and thermodynamics for life sciences and biotechnology
- Product Engineering in the Bio Industries, Self-organisation in the Bio-sciences and elsewhere
- Systems biology, Proteomics
- The impact of bio-based polymeric materials, Biochemical and bio-molecular engineering, Bioengineering and biomedical engineering, Biological and Medicinal Chemistry

Textile Engineering

- Recent developments in fibers and polymers
- Advancements in yarn and fabric manufacturing
- Advancements in coloration and finishing
- Recent developments in apparel manufacturing
- Textile Composite Materials
- Developments in textile machinery
- Sustainability, environment and clean technologies
- Water and energy conservation in textile industry
- Protective, medical and geo-textiles
- Recycling in textiles
- Use of nano and biotechnologies in textiles

- Modelling and simulation in textiles
- Productivity and quality management in textile manufacturing processes
- Computer applications in Textiles
- 3D Textiles

Fashion and Textile

- Textile Chemistry and Finishing
- Textile Dyeing and Printing
- Fashion and textile product design
- Garment industry and merchandise
- Clothing science and technology
- Quality control and testing in textile branch
- Composites material
- Nano Textiles
- Nonwoven
- Spinning, weaving and knitting
- Technical Textiles
- Function Textiles
- Ecotextiles-sustainability development
- Marketing and supply management
- Fiber science and smart textile
- Natural dyes and dyeing

Digital Textile

- Market updates
- Industry strategies
- Transfer Vs direct printing
- Digital fashion
- Sportswear and apparel
- Serving interior markets
- Environmental impacts
- Digital textile inks
- Case studies from leading printers and end-users and much more

Textile Engineering

- Actions in the Blowroom Section
- Advanced Fabric
- Advanced Garments Manufacturing
- Advanced Physiological Aspect of Clothing
- Advanced Wet Processing
- Advanced Yarn
- Agricultural Applications of Textiles
- Air-jet Spinning
- Apparel Design and Manufacturing
- Apparel Manufacturing Technology
- Apparel Merchandising
- Application of Computer in Textile
- Basic Operations in the Blowroom
- Bio Technology in Textile Industry

- Blending
- Blow Room
- Boiling and Dyeing Technology
- Break Spinning
- Carding
- Carding Machine
- Centrifugal Spinning
- Chemical Structure of Fibres
- Classification of Tetile Fibers
- Coloration Technology
- Commercially Popular Systems of Spinning
- Construction of Elementary Weaves
- Conversion of Filaments to Fibres
- Crighton Opener Machine
- Defects and Remedies of Dyed Material
- Design and Manufacture of Textile Equipment
- Development of Weave form Elementary Basis
- Developments in Yarn Spinning Technology
- Digital Printing
- Digital Printing Technology
- Dispersion Spinning
- Draw-Spinning
- Dry Spinning
- Elements of Woven design
- Energy Saving and Emission Reduction
- Fabric Manufacturing Technology
- Fabric Structure and Design
- Factors for Ring Traveller Selection
- Fashion & Design Technology
- Fashion Illustration& Collection
- Fibers for the Next Generation
- Fibre Fineness: Technical Significance
- Fibre Testing
- Finishing Technology
- Flash Spinning
- Flyer Spinning
- Friction Spinning
- Fundamental of Textile Science and Technology
- Future of Textile Industry
- Garments Manufacturing
- Gauze and Leno Structure
- Idea of Machine or Equipment Data Acquisition Thorough Serial and Parallel Ports
- Idea of Simple macro Programming in Excel for Spinning and Weaving Calculations
- Innovation of Industry Chain of Textile and Apparel
- Knitting Technology
- Mechanics of Flexible
- Mechanics of Textile Reinforced Materials

- Melt Spinning
- Microstructure and Macrostructure of Fibres
- Modern Methods in Textile Manufacturing
- Multi-axial Fabrics
- Nano Technology in Textile
- Natural Fibres Vs Man Made Fibres
- Neural networks in Fabric Engineering
- New Methods in Textile Testing and Analysis
- New Spinning Processes
- Open-end Spinning Processes: Advantages
- Physical Chemistry of Dyeing
- Pile Structures
- Plasma Technology in Textiles
- Pollution Control and Treatment of Dyeing & Finishing
- Process of Cotton Carding
- Processing of Manmade Fibres in the short staple mill
- Reaction Spinning
- Recycling Process Textile Waste
- Ring Spinning
- Rotor Spinning
- Silk Fibroin Protein Based Biomaterials
- Solubilised Vat Colours
- Some Studies of fabrics produced by dyneemafibres for Defence applications
- Special Testing of Interlaced and Textured Yarns
- Staple Fibre Spinning
- Structures and Properties of Polymers
- Study of Sound Damping Properties of Non-Wovens in Protective Equipment
- Tapestry Structures

Mining Engineering

- Advanced Metaliferrous Mining
- Advanced Mine Planning
- Advanced Mine Ventilation
- Application of Artificial Intelligence in Mining
- Automation and Remote Control of Mining
- Coal Mines Regulations and Metalliferous Mines Regulation
- Computer Applications in Mining
- Development of Mining Legislations in India
- Evaluation of drilling and blasting methods for underground and surface mines
- Explosives. Initiation systems and accessories for blasting in the underground mines
- Fundamentals of drilling technology
- Fundamentals of rock mechanics instrumentation
- Ground Control Instrumentation
- Latest Mine Machinery
- Mine Fires and Disasters
- Mine Fires and spontaneous heating

- Mine planning
- Mine Pumps
- Mining Induced Subsidence Engineering
- Mining of Deep Seated Deposits
- Mining Under Difficult Geological Situations
- Modern Design of Mine Opening
- Operations Research in Mining
- Principles of blast round design for single and multi-row
- Provisions of Mines Act and Mines rules
- Rock Drivage Machines
- Rock Excavation Engineering
- Rock Mechanics Application to Environmental Problems
- Rock Slope Technology
- Safety Risk Assessment & Management in Mining
- Status of Metalliferous Mining Industry in India
- Strata Control Technology
- Surface & Underground Mining Systems
- Technology of underground encavation
- Tunneling
- Underground Metalliferous mining

Energy Engineering and Smart Materials

- Non ferrous metal material
- Iron and steel
- High strength alloys
- Materials processing and handling
- Composites
- Micro/Nano materials
- Ceramic
- Optical, Electronic, Magnetic materials
- Carbon based materials
- Metallurgical science
- Metallurgical fundamentals and techniques
- New functional materials
- Building materials
- New energy materials
- Earthquake materials and design
- Biomaterials
- Smart and intelligent materials
- Intelligent materials systems
- Polymeric materials
- Mechanical behavior and fracture
- Tool testing and evaluation of materials
- Processing technology for functional materials
- Function test and evaluation technology for material analysis

Hydrogen & Fuel Cell

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

Environmental Engineering

- Carbon capture technologies, CO₂ transport, storage and use
- Clean Production Process

- Contaminated land management and site remediation
- Cultivation and Conservation of Forest
- Environmental Chemistry and Biology
- Environmental impact assessment and mitigation
- Environmental policy and regulation development
- Environmental Safety and Health
- Geographic Information and Remote Sensing Science
- Hazardous waste management
- Land Resources Environment and Urban Planning
- Noise and Vibration Control
- Volatile organic compounds (VOC)
- Waste Disposal and Recycling
- Water supply and treatment
- Water, air, noise and land pollution
- Environmental pollution and its effect on ecosystems
- Air pollution control
- Solid waste management
- Modeling, simulation and optimization
- Sustainable tourism
- Urban and Rural Ecology
- Waste Management (industrial, domestic, natural)
- Environmental Technology and Management
- Biodiversity Conservation & Protected Areas Management
- Ecological and Environmental Quality Studies
- Safety & risk management systems
- Environmental Manufacturing & Engineering
- Biodiversity and its conservation
- Environment and ecological policies
- Conservation, restoration and management of ecosystems / biodiversity
- Treatment processes: physical, chemical and biological
- Built environment; Environmental performance of building designs
- Environmental management and remote sensing
- LIDAR, hyperspectral and microwave remote sensing
- GIS/GPS applications
- Environmental Laws
- Challenges, global agenda, regulations and policies
- Sustainable development and clean technologies
- Environmental ethics; Environmental education
- Ecological economics and sustainable development

Advancement In Energy

- Advances in Green Energy
- Energy Harvesting and Conservation
- Energy Conversion Techniques
- Energy Storage Batteries and other Storage Devices
- Future Energy Technologies

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

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

Green technology, Renewable energy and Environmental protection

- Climate and climatic changes
- Corporate Responsibility and Sustainable Development
- Economic and Social aspect of Sustainable Development
- Environmental restoration and ecological engineering
- Global warming Green Energy Options
- Health and the Environment
- Nuclear Energy Fission & Fusion

Solar Photovoltaic Devices and Systems

- Next Generation (Nano) Photonic and Cell Technologies

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

Envirotech, Cleantech and Greentech

- Green Energy
- Green Building
- Clean Water Technology and Management
- Smart Cities
- Biomass, Biofuel as Green Energy
- Green Information Technology
- Sustainable Materials
- Science for Sustainable Development
- Sustainable Urban Development
- Sustainable Chemical Processes
- Smart and Functional Materials
- Green House Gases
- Adsorption and Gas Storage Materials
- Nanotechnology for Sustainability
- Biotech for Sustainability
- Public-Private Partnerships
- Innovative Green Technologies and Processes
- Green Service Industry: Hospitality and Tourism

Climate Change Mitigation and Technologies for Adaptation

- Agriculture and Climate Change

- Climate Change
- Climate Change Informatics
- Eco-tourism
- Energy and Climate Change
- Forests, Water resources and Climate Change
- Green Chemistry
- Remote Sensing & GIS Applications
- Satellite Meteorology and Climatology
- Smart-Grid Computing and Climate Studies
- Sustainable Development

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.energyconference@gmail.com on or before **25th December, 2017**.

Submission of Full Length Research Paper

Full length research paper, maximum in 6 pages and copyright form should be submitted together as separate attachment latest by **26th December, 2017**, through email at info.energyconference@gmail.com

Submission of Registration form:

Submission of Registration fees latest by **27th December, 2017**. Registration process can be initiated after receiving acceptance letter of full paper.

Accommodation

Free one day Accommodation will be available to the limited no. of out station non N.C.R. Delegates at JNU guest house and nearby other guest houses/hotels around conference venue. The Tariff rate for next day and subsequent day accommodation is as follows: Double-bed Room @ Rs.800/- 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.

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:**

Beneficiary Name : Krishi Sanskriti Publications
Bank Name : Canara Bank
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Registration Charges:

Categories	Indian Delegates	SAARC/ African Country Delegates	Rest of the countries
Academic faculty/ Industrial Delegates	4000 INR	125 USD	250 USD
Research Scholars (M. Phil/Ph.D) / NGO Representative	3500 INR	100 USD	200 USD
Students(B.Tech./M.Tech /M.Scetc)	2500 INR	75USD	150 USD
Printing of Additional Page in Books /Journals	300 INR	15 USD	20 USD
Listener / Accompanying Member(only Indian Delegates)	1500 INR	**	**
Book/Journal & Certificate (additional copy) (for Co-Authors in absentia)	700 INR	20 USD	30 USD
Only Books/Journal (additional copy) (for Co-Authors in absentia)	500 INR	15 USD	25 USD
Only Certificates (Co-Authors in absentia)	300 INR	10 USD	20 USD
Additional Research paper for same authors	1500 INR	25 USD	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 website:

<http://www.krishisanskriti.org/technova2017.html>

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