



**International Conference**  
on  
**Recent Advances in “Chemical, Environmental, Bioprocess, Textile,  
Mining, Material and Metallurgical Engineering”**

**(CEBTME-2017)**

**Organized by**

**“Krishi Sanskriti Publications”**

**On**

~~12<sup>th</sup> July, 2017~~

**14<sup>th</sup> October 2017**

**Venue:**

**Jawaharlal Nehru University,**

**New Delhi**

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**CALL FOR PAPERS AND CONFERENCE THEMES:**

The Organizer cordially invites abstracts and full length research papers from all over the World to participate in the **International Conference on “Chemical, Environmental Bioprocess, Textile, Mining, Material and Metallurgical Engineering” (CEBTME - 2017)**. Topics of interest for submission include various subthemes, but are not limited to the conference aims. The aim of the **CEBTME-2017** conference is to provide a forum for laying the foundations of a new principled approach to Chemical, Environmental, Bioprocess, Textile, Mining, Material and Metallurgical Engineering. To this end, the meeting aims to attract participants with different backgrounds, to foster cross-pollination between different research fields, and to expose and discuss innovative theories, frameworks, methodologies, tools, and applications 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 in International Journal having ISSN No./ Conference proceeding/ As a chapter in edited book with ISBN No.

**Themes:**

**Chemical, Environmental, and Process Engineering**

- Biofuels and Renewable Energy
- CFD, Modeling and Simulation, Chemical Technology, Chemical-Pharma Interface, Engineering Thermodynamics, Green Chemistry and Engineering, Materials Science and Engineering, Nanotechnology and its Applications, Petroleum and Petrochemicals, Polymer Engineering
- Environmental engineering & management, Sustainable & clean technologies
- Environmental engineering and sustainable development, Process design and optimization
- Fine Chemicals and Pharmaceuticals, Computational Process Modelling and Simulation, Supercritical Technology
- Green organic synthesis routes, Process integration
- Intelligent polymers
- New materials & structured products

- Process Control and Instrumentation
- Process Development & Process Intensification, Reaction Engineering and Catalysis
- Product innovation, development and economics, Advanced Separation Processes
- Scale up and Process plant safety, Transport Phenomena, Nanotechnology
- SCF as solvent substitutes

**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

**Multi-scale and/or Multi-disciplinary Approaches**

- Controlled release of the active ingredient, Energy & nuclear sciences
- Mathematical modeling in chemical engineering, Macromolecular Science and Engineering, Advanced materials processing
- Mathematics for Chemistry, CFD & chemical engineering, Food engineering, Nanomaterials
- Process system, instrumentation and control, Product engineering and product development, Product design & innovation, Nanomanufacturing

**Systematic Methods and Tools for Managing the Complexity**

- Economics and Business Management
- Multiscale modeling, Process synthesis & design, Process control & operations, Process Safety Management
- Process Analytical Technology - PAT, Software architecture, standards and interfaces
- Supply chain management & business decision support, Advances in computational & numerical methods, Safety & risk management systems

### **Environmental dynamics**

- Advanced treatment of water and secondary effluents (membranes, adsorption, ion exchange, oxidation etc)
- Advances in biological, physical and chemical processes, On site and small scale systems
- Atmospheric modelling and numerical prediction, Interaction between pollutants
- Biodiversity conservation, Deforestation
- Carbon capture and storage, Biofuels
- Community participation, Legislation and regulations
- Control technologies, Air emission trading, Solid waste management, Waste minimization
- Disinfection and disinfection by- products, Management of water treatment residuals, Aesthetic quality of drinking water (taste, odors)
- Economic instruments
- Effect of distribution systems on potable water quality, Reuse of reclaimed waters
- Environmental policies and planning, Environmental assessments, Development issues
- Environmental restoration and ecological engineering, Habitat reconstruction
- Geophysics, Atmospheric physics, Physical oceanography
- Global environmental change and ecosystems management, Climate and climatic changes
- Global warming, Ozone layer depletion
- Hazardous substances and detection techniques, Biodegradation of hazardous substances, Toxicity assessment and epidemiological studies
- Health and the Environment, Health related organisms
- Hydrology
- Integrated ecosystems management, Satellite applications in the environment
- Landscape degradation and restoration, Ground water remediation
- Leachate treatment
- Legal, economic and managerial aspects of solid waste management
- Life cycle analysis, Environmental systems approach
- Management and regulation of point and diffuse pollution, Monitoring and analysis of environmental contaminant, Ground water management
- Management of hazardous solid waste
- Meteorology

- Modelling and decision support tools, Institutional development, Transboundary cooperation
- Natural resources management, Energy and the environment, Food and the environment, Ecosystems health
- Optimization of collection systems, Recycling and reuse
- Process modeling
- Quality guidelines, environmental regulation and monitoring, Indoor air pollution
- Renewable sources of energy-energy savings, Clean technologies
- Sludge treatment and reuse, Fate of hazardous substances, Industrial wastewater treatment
- Soil contamination, Brownfields rehabilitation, Water resources management, Air and water pollution, Toxicity studies, Environmental health risk, Risk analysis
- Soil decontamination, Eco-technology, Environmental sustainability, Resource management
- Storm-water management, Air pollution and control, Emission sources
- Suspended and fixed film biological processes, Anaerobic treatment
- Sustainable cities
- Sustainable cities, Economic analysis
- Technical aspects of treatment and disposal methods (landfilling, thermal treatment etc)
- Waste valorization
- Wastewater and sludge treatment, Nutrients removal
- Water resources and river basin management, Public participation
- Water treatment and reclamation
- Wetlands

### **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**

- 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 Technolgy 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 Through 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 dyneema fibres 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
- Tensioning Device
- Textile Aesthetics and Color Science
- Textile Chemical Analysis
- Textile Chemical Processes
- Textile Chemistry
- Textile Costing and Management
- Textile Finishing and Printing
- Textile Manufacturing Process
- Textile Physics
- Textile Printing Technology
- Textile Process Design and Quality Control
- Textile Raw Material
- Textile Reinforced Materials Structures
- Textile Testing
- Textile Testion and Quality Control
- Textile Trade
- Textiles in Civil Engineering Applications
- The Super-Fiber with New Performance
- Types of Selvages and Their Weaves
- UltraSonic Assisted Wet Processing
- Unconventional Looms
- Utility Services and Maintenance of Textile Machinery
- Vortex Spinning System
- Waste Spinning
- Wet Procession Technology
- Wet Spinning
- Yarn Manufacturing Technology
- Yarn Testing

### **Mining Engineering**

- Advanced Metaliferous 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

### **Materials and Structures Technologies in Metallurgical and Materials Engineering**

#### **Intelligent Materials and Structures**

- Developments and Characterization of Multifunctional Materials
- Mechanics and Behavior of Active Materials
- Modeling, Simulations and Control of Adaptive Systems
- Advanced Fluid-Solid Reaction Engineering
- Advanced Metallic Materials
- Bonding, Structure and Crystallography
- Corrosion Fundamentals and Minimization
- Electrometallurgy
- Electronic Materials and Devices
- Electronic, Optical and Magnetic Materials
- Engineering Alloys
- Extractive Metallurgy
- Hydrometallurgy
- Magnetic Materials and Devices
- Mechanical Properties of Materials

- Metal Failure Analysis
- Microstructural and Microchemical Characterization of Materials
- Modern Experimental Techniques in Metallurgy
- Nanoscience and Technology
- Nuclear Materials: Processing, fabrication, use and disposal
- Physical Metallurgy
- Powder Metallurgy
- Principles and Practice of Transmission Electron Microscopy
- Stochastic Processes and Monte Carlo Simulations
- Thermodynamics of Materials
- Tribology (friction, wear and lubrication) of materials

#### **High Strength Steels**

- Development and Characterization of High Strength Steels
- Shaping of High Strength Steels in the Manufacturing
- High Strength Steels in Automotive and Aerospace Industry

#### **Composites and Hybrid Materials**

- Development and Characterization of Composites and Hybrid Materials
- Producing and Shaping of Composites and Hybrid Materials
- Composites and Hybrid Materials in Automotive and Aerospace Industry

#### **Nano and Material Science**

- Biomedical manufacturing
- Casting and solidification
- Coatings and surface engineering
- Composite materials
- Computer-aided design, manufacturing, and engineering
- Environmentally sustainable manufacturing processes and systems
- Joining processes
- Laser based manufacturing
- Machining
- Manufacturing process planning and scheduling
- Materials behavior
- Materials forming
- Meso/micro manufacturing equipment and processes
- Metrology and measurement
- Modeling, analysis, and simulation of manufacturing processes
- Nanofabrication, nanometrology and applications
- Nanomaterials and nanomanufacturing
- Nontraditional manufacturing
- Powder metallurgy and ceramic forming
- Precision molding processes
- Rapid manufacturing technologies

- Semiconductor materials manufacturing

#### Abstract Submission:

Abstracts not exceeding 300 words on any of the aforesaid themes should be sent to the Organizing Secretary through email at [info.conference2017@gmail.com](mailto:info.conference2017@gmail.com) on or before **7<sup>th</sup> October, 2017**.

#### Submission of Full Length Research Paper & Copyright Form

Full length research paper, maximum in 6 pages and copyright form should be submitted together as separate attachment latest by **9<sup>th</sup> October, 2017** through email at [info.conference2017@gmail.com](mailto:info.conference2017@gmail.com)

#### Submission of Registration Details:

Submission of Registration Form/Details: **11<sup>th</sup> October, 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 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 Journal/ Certificate for other Co-author (if required) should be paid along with preliminary Registration by the corresponding author.
4. 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.

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 mentioned below for RTGS/ Wired Transfer or Online Transfer:**

**Beneficiary Name : Krishi Sanskriti Publications**  
**Bank Name : Canara Bank**  
**Bank Address : Jit Singh Marg, New Delhi**  
**Account No. : 1484201003088**  
**Account Type : Current**  
**IFSC Code : CNRB0001484**  
**Swift Code- : CNRBINBBID**

#### **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(Ph.D) / NGO Representative	3500 INR	100 USD	200 USD
Students(B.Tech./M.Tech /M.Sc etc)	2500 INR	75USD	150 USD
Printing of Additional Page in Journals	300 INR	15 USD	20 USD
Listener / Accompanying Member( <b>only Indian Delegates</b> )	1500 INR	**	**
Journal & Certificate (additional copy) (for Co-Authors in absentia)	700 INR	20 USD	30 USD
Only Journal (additional copy) (for Co-Authors in absentia)	500 INR	15 USD	25 USD
Only Certificates (for 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.**

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#### **For further information and Latest Updates**

**Visit our Website:** <http://www.krishisanskriti.org/cebtme.html>

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