



## International Conference

on

### Innovative Research in “Chemical, Bioprocess, Textile, Mining, Aeronautics, Nanotechnology, Material Science and Metallurgical Engineering”

(CBMT-2018)

Organized by

“Krishi Sanskriti Publications”

On

22<sup>nd</sup> December 2018

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 Innovative Research in “Chemical, Bioprocess, Textile, Mining, Aeronautics, Nanotechnology, Material Science and Metallurgical Engineering” (CBMT-2018)** Topics of interest for submission include various subthemes, but are not limited to the conference aims. The aim of the **(CBMT-2018)** conference is to provide a forum for laying the foundations of a new principled approach to **Chemical, Bioprocess, Textile, Mining, Aeronautics, Nanotechnology, Material Science 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.

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#### Themes:

##### Chemical Science and Engineering

- ✓ Chemical engineering fundamentals
- ✓ Physical, Theoretical and Computational Chemistry
- ✓ Chemical engineering educational challenges and development
- ✓ Chemical reaction engineering
- ✓ Chemical engineering equipment design and process design
- ✓ Thermodynamics
- ✓ Catalysis & reaction engineering
- ✓ Particulate systems
- ✓ Rheology
- ✓ Multifase flows
- ✓ Interfacial & colloidal phenomena
- ✓ Transport phenomena in porous/granular media
- ✓ Membranes and membrane science
- ✓ Crystallization
- ✓ Distillation, absorption and extraction

- ✓ Ionic liquids/electrolyte solutions
- ✓ Environmental engineering and sustainable development
- ✓ Process design and optimization
- ✓ Product innovation, development and economics
- ✓ Process intensification
- ✓ Nanotechnology
- ✓ New materials & structured products
- ✓ Intelligent polymers
- ✓ Green organic synthesis routes
- ✓ Process integration
- ✓ Environmental engineering & management
- ✓ Sustainable & clean technologies
- ✓ SCF as solvent substitutes

##### Chemistry and Chemical Engineering Fundamentals

- ✓ Chemical engineering fundamentals
- ✓ Chemical reaction engineering
- ✓ Distillation, absorption and extraction, Ionic liquids/electrolyte solutions
- ✓ Interfacial & colloidal phenomena
- ✓ Particulate systems, Rheology, Multifase flows

##### 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
- ✓ 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

##### Textile

- ✓ Advancements in yarn and fabric manufacturing
- ✓ Advancements in coloration and finishing
- ✓ Recent developments in apparel manufacturing

- ✓ Textile Composite Materials
- ✓ Protective, medical and geo-textiles
- ✓ Recycling in textiles
- ✓ Use of nano and biotechnologies in textiles
- ✓ Computer applications in Textiles

### **Fashion and Textile**

- ✓ Textile Dyeing and Printing
- ✓ Fashion and textile product design
- ✓ Clothing science and technology
- ✓ Composites material
- ✓ Nano Textiles
- ✓ Spinning, weaving and knitting
- ✓ Ecotextiles-sustainability development
- ✓ Marketing and supply management
- ✓ Fiber science and smart textile
- ✓ Natural dyes and dyeing

### **Textile Engineering**

- ✓ Advanced Fabric
- ✓ Advanced Garments Manufacturing
- ✓ Advanced Wet Processing
- ✓ Advanced Yarn
- ✓ Apparel Manufacturing Technology
- ✓ Apparel Merchandising
- ✓ Blending
- ✓ Boiling and Dyeing Technology
- ✓ Break Spinning
- ✓ Carding
- ✓ Carding Machine
- ✓ Chemical Structure of Fibres
- ✓ Coloration Technology
- ✓ Digital Printing
- ✓ Digital Printing Technology
- ✓ Dispersion Spinning
- ✓ Draw-Spinning
- ✓ Dry Spinning
- ✓ Elements of Woven design
- ✓ Fabric Structure and Design
- ✓ Fashion & Design Technology
- ✓ Finishing Technology
- ✓ Fundamental of Textile Science and Technology
- ✓ Future of Textile Industry
- ✓ Knitting Technology
- ✓ 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
- ✓ Structures and Properties of Polymers
- ✓ Study of Sound Damping Properties of Non-Wovens in Protective Equipment
- ✓ 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
- ✓ The Super-Fiber with New Performance
- ✓ Unconventional Looms
- ✓ Wet Spinning
- ✓ Yarn Manufacturing Technology
- ✓ Yarn Testing

### **Mining Engineering**

- ✓ Advanced Mine Planning
- ✓ Automation and Remote Control of Mining
- ✓ Computer Applications in Mining
- ✓ 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
- ✓ Tunneling

### **Aerospace Engineering (Aeronautical and Astronautical)**

- ✓ Aeroacoustics
- ✓ Aerospace Defense Systems
- ✓ Aerospace Propulsion Systems
- ✓ Aerospace Structures and Materials
- ✓ Affordable launch systems and developing countries
- ✓ Aircraft Design and Technology
- ✓ Aircraft Fuel System, Guidance and Control
- ✓ Atmospheric Flight Dynamics
- ✓ Avionics Engineering
- ✓ CFD and FEA
- ✓ Communication Systems and Technologies
- ✓ Computational Fluids Dynamics
- ✓ Design and construction of space systems, simulation and testing

- ✓ Developments in global positioning, interoperability, new applications, vehicle control
- ✓ Energy from Space
- ✓ Flight and Space Mechanics
- ✓ Flight Dynamics, Control and Performance
- ✓ High Frequency Gravity Wave Generation Detection,
- ✓ Industrial Aerodynamics
- ✓ Liquid Propellant Rockets
- ✓ Lunar Lander Technologies and Design
- ✓ Multidisciplinary design Optimization
- ✓ Navigation, Guidance and Control
- ✓ Near- Earth Space Physics
- ✓ Neuro-Fuzzy Control
- ✓ Satellite Technologies
- ✓ Scientific applications, near Earth space, deep space, microgravity sciences
- ✓ Small satellites, micro, nano and pico satellites, cubesat developments
- ✓ Space law, space medicine, and social, educational and other benefits of space
- ✓ Space Mission and Spacecraft Subsystems
- ✓ Space robotics
- ✓ Space technology utilization for development and societal well being
- ✓ Space weather
- ✓ Spacecraft Communication Technique
- ✓ Spacecraft Design and Technology
- ✓ Spacecraft Software Development and Modeling
- ✓ Turbomachinery
- ✓ Unmanned Air Vehicle
- ✓ Wind Tunnel Design and Testing

### **Nanotechnology: Fundamentals and Applications**

- ✓ Biomimetics
- ✓ Computational nanoscience and nanotechnology
- ✓ Engineering of Biointerfaces
- ✓ Layered and composite nanostructures
- ✓ Low-dimensional systems
- ✓ Mechanical Properties and Nanomechanics
- ✓ MEMS and Nano Technology
- ✓ Modeling and Simulation
- ✓ Multifunctional nanomaterials
- ✓ Nano manufacturing Processes and Systems
- ✓ Nanobiomechanics
- ✓ Nanobiotechnologies
- ✓ Nanocatalysis
- ✓ Nanoelectronics and information technology
- ✓ Nano-Graphene
- ✓ Nanomaterial Engineering
- ✓ Nanomaterials, Nanodevices: Fabrication, Characterization and Application
- ✓ Nanomedical Applications: Drug Delivery, and Tissue Engineering
- ✓ Nanopatterning
- ✓ Applications of Nanotechnology in Agriculture, Coating, Education, Energy, Environment, Polymer etc.
- ✓ Nanotechnology, Products and Markets
- ✓ Societal aspects of Nanotechnology: Ethics, Risk Assessment, Standardization

### **Nanomaterials, Functional Porous Materials, Co-ordination Networks, Bio-inspired Nanomaterials, Hybrid Materials and Living Materials:**

- ✓ Nanostructures and Nanoparticles
- ✓ Nanotubes and Ceramics
- ✓ Membranes and Films
- ✓ Supramolecular systems
- ✓ Co-ordination polymers
- ✓ Zeolites and MOFs
- ✓ Mesoporous materials
- ✓ Hierarchically structured materials
- ✓ Carbons and Natural Materials
- ✓ Bioinspired and biomimetic materials
- ✓ Bio-integrated materials
- ✓ Biocomposites and Organometallics
- ✓ Green materials for construction
- ✓ Inorganic switches

### **Important Dates**

#### **Last date of Abstract Submission:**

**17<sup>th</sup> December 2018.**

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

**18<sup>th</sup> December 2018.**

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

**19<sup>th</sup> December 2018.**

### **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. 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** : 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

### 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.**

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**For further information and Latest Updates**

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

**Email:** [newdelhi.conference@gmail.com](mailto:newdelhi.conference@gmail.com)

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