ONLINE-INTERNATIONAL CONFERENCE
On

"Innovative Approach in Applied Physical, Mathematical/Statistical, Chemical Sciences and Emerging Energy Technology for Sustainable Development" (APMSCSET-2021)

Organized by:
"Krishi Sanskriti Publications" New Delhi

On
1st August, 2021

- All the sessions will be conducted in "Online Mode".
- All the participants will be provided a web link for joining with detailed schedule before the Conference.
- E Certificates and online publication links will be sent to the participants through emails.

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CALL FOR PAPERS AND CONFERENCE THEMES:

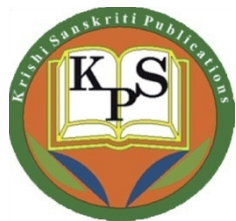The Organizer cordially invites abstracts and full length research papers for oral/poster presenation from all over the World to participate in the *Online-International Conference* on *Innovative Approach in Applied Physical, Mathematical/Statistical, Chemical Sciences and Emerging Energy Technology for Sustainable Development"*. *APMSCSET-2021* is the premier forum for the presentation of new advances and research results in the fields of theoretical, experimental, applied physical, chemical, mathematical, statistical sciences and emerging energy technology for sustainable development. 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. 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 in International Journal having ISSN No. in online version and that will be released on the day of conference.

THEMES:
Applied Physics and Engineering Mathematics

- Advanced Numerical Algorithms
- Aeroacoustics
- Algorithmic Approaches to Computational Kernels and Applications

- Application of Soft Computing, Knowledge Engineering, and Machine Learning
- Applications of Computation as a Scientific Paradigm
- Applications of Microscopy in the Physical Sciences
- Applied Materials Science & Engineering
- Applied Optics, Non-linear optics, Laser Physics, Ultrafast phenomena, Lasers application to Medicine, Chemistry
- Applied Solid State Physics/Chemistry and Materials Science and Technology Advanced Materials
- Artificial Intelligence and Soft Computing (Neural, Fuzzy, Evolutionary Systems)
- Astrophysics and Plasma Physics
- Atomic, Molecular and Chemical Physics
- Automation, Control and Robotics
- Aviation & Space Technology
- Biomaterials Science and Biomedical Engineering
- Biophysics, Bio (electro) magnetism, Biophysical Chemistry
- Computational Physics, Non-linear Physics
- Control of Dynamical Systems
- Electronics, Microelectronics and Nano-electronics
- Engineering and Industrial Physics, Instrumentation, Metrology and Standards
- Environmental Physics
- Health Physics, Biomechanics
- Imaging Techniques, Microscopy

- Instrumentation and Measurement
- Large-code development
- Mechanics and Fluid Mechanics
- Medical/Biological Physics, Health Physics, Biomechanics
- Multimedia and Video Systems
- Nanoscale physics
- Nanoscience and Nanobiotechnology
- Non-equilibrium systems
- Nonlinear Analysis
- Nuclear Physics/Chemistry, Radioactivity, Radiochemistry, Radiation Safety
- Nuclear Sciences and Engineering
- Optical Physics, Quantum Electronics and Photonics
- Optimization Inverse Problems
- Optometry
- Particle Physics
- Petascale computing
- Physical Properties of Biological/Biomedical Systems through Microscopy
- Physics and renewable energy
- Processing, Radiation-Matter interaction,
- Quantum Monte Carlo
- Radiation Physics, Radiation Chemistry, Radiation Processing, Radiation-Matter interaction, Spectroscopies
- Radioactivity and Radiochemistry, Radiation Protection and Safety Issues
- Semiconductors devices and Photonics,
- Semiconductors devices and Photonics, Opto-electronics, Quantum Electronics
- Soft and granular matter
- Solar System
- Solid State Physics
- Spectroscopies
- Stellar Astrophysics
- Stellar Scintillation
- Surfaces, Interfaces and Colloids
- Technology Advanced Materials
- Theoretical physics

Condensed Matter Physics
- Crystallography

- Semiconductors physics and devices

Nano-science and Nanotechnology
- Applied optics
- Laser physics and applications
- Layered and composite nanostructures
- Low-dimensional systems
- Multifunctional nano-materials
- Nano-electronics and information technology

Engineering and Industrial Physics, Instrumentation Metrology And Standards
- Advances in instrumentation and techniques
- Applications of microscopy and imaging techniques in
- Applied non-linear physics
- Biomedical image processing and analysis
- Finite element analysis
- Medical/biological physics, health physics
- Optimization techniques

Quantum, Atomic and Nuclear Physics
- Computational atomic and nuclear physics
- Plasma physics, high-energy physics and particle Quantum

  entanglement, quantum information and quantum Cryptography

Chaos and Complex Systems
- Chaos and Nonlinear Dynamics
- Chaos and Solitons
- Chaotic Systems
- Complexity Fractals and Nonlinearity in Nano-Science
- Fractional dynamical systems
- Nonlinear Science and Applications
- Nonlinear Time Series Analysis
- Stochastic Chaos
- Synchronization and Control of Nonlinear Dynamical Systems

Mathematics
- Approximation Theory
- Complex Analysis
- Computer Aided Geometric Design
- Cryptography
- Differential Equations (ODEs and PDEs)
- Dynamical System
- Financial Mathematics
- Functional Analysis
- Fuzzy Theory

- Mathematical Logic
- Mathematical/Computational Techniques
- Mathematics for Chemistry
- Maths/Computer Modeling
- Number Theory
- Set Theory
- Stochastic Process
- Topology

Discrete Mathematics:

- Algebraic Combinatorics
- Combinatorial Algorithms
- Combinatorial Number Theory
- Computational Biology
- Design Theory
- Discrete Geometry
- Enumeration
- Extremal Combinatorics
- Game Theory
- Matroids
- Optimization
- Ordered Sets
- Probabilistic Combinatorics
- Probability
- Ramsey Theory
- Topological and Analytical Techniques in Combinatorics

Mathematics and Statistics

- Algebra & Mathematical Logic
- Algebraic Geometry and Topology
- Algebraic Statistics & Its Applications
- Algorithms
- Applied mathematics & Parallel processing
- Approximate Confidence Interval
- Approximation Theory & Its Applications
- Asymptotical Methods
- Bayesian Analysis
- Bioinformatics
- Biostatistics
- Biostatistics & biocomputing
- Categorical data analysis
- Category Theory; Homological Algebra
- Censored Data
- Clustering & classification
- Coding Theory

- Combinatorics & Its Application
- Computational bayesian methods
- Computational Geometry and Econometrics
- Computational Group Theory
- Computational mathematics & modeling
- Computational Statistics
- Computer-aided data analysis
- Cryptology, Geometry
- Data exploration and data mining
- Data visualization
- Design of experiments
- Difference and Functional Equations
- Differential equations & applications
- Differential Geometry
- Discrete mathematics & control
- Distributions of Ratios
- Dynamical Systems and Ergodic Theory
- Engineering Mathematics
- Ergodic Theory
- Error Models
- Extreme value theory & applications
- Factorization methods
- Field Theory and Polynomials
- Financial Mathematics & Computation
- Finite difference methods
- Finite element methods
- Fixed Point Theory
- Fluid mechanics & Heat transfer
- Fluid Mechanics and Solid Mechanics
- Fractional Differential Equations and Applications
- Functional Analysis & It's Applications
- Functional data analysis
- Functions of a Complex Variable
- Fuzzy mathematics and its applications
- General Algebraic Systems
- Generalized eigen-problems
- Generalized Likelihood Ratio Test
- Geometry & Its Application
- Graph Theory
- Group Theory and Generalizations
- Harmonic Analysis
- High order difference approximations
- High Performance Computing
- High-dimensional data analysis
- Hybrid Computational Methods

- Ill-posed Problems
- Industrial Mathematics
- Information Theory & Error Correcting Codes
- Integral Equations and Integral Transforms
- Inverse Problems
- Inversion problems in Geophysics
- Iterative methods
- Kernel & monte carlo methods
- Kinematics
- Lattices, Algebraic Structures
- Lie Algebras and Groups
- Linear algebra & applications
- Linear and Multilinear Algebra; Matrix Theory
- Mathematical Actuary
- Mathematical and Computer Modelling
- Mathematical Biology, Chemistry, Physics and Medicine
- Mathematical Methods in Continuum Mechanics
- Mathematical models for the information society
- Mathematical models in Economy and Insurance
- Mathematics Modeling & Optimization
- Mathematics of Finance
- Measure Theory and Integration
- Methods for integration on a uniform and non-uniform mesh
- Mixture models
- Modeling and computation of soft matter materials and complex fluids
- Models for Complex Media
- Molecular dynamics
- Multivariate Analysis of Variance
- Multivariate data analysis
- Network Analysis
- Neural Networks
- Neutrosophic Mathematics
- Non–Linear Production Function
- Nonlinear systems and eigenvalue solvers
- Nonparametric statistics
- Nonsymmetric solvers
- Number Theory
- Numerical analysis
- Numerical linear algebra
- Numerical methods and simulation
- Numerical methods in statistics
- Operations Research and Information Engineering

- Optimization and optimal control
- Optimization heuristics in statistical modeling
- Ordinary and partial differential equations, integral equations, singular perturbation problems
- Overlapping and nonoverlapping domain decomposition methods
- Parameter Estimations
- Parametric & semi parametric models
- Partial differential equations
- Perturbation Methods
- Poisson Distribution
- Probability & Statistics Applications
- Probability Models
- Random Variables and Random Matrices
- Rings and Algebras
- Robust Methods and statistics
- Sample Estimation
- Sampling Methods and Censored Sampling
- Sequential Test
- Signal processing
- Space Geodesy and Space Dynamics
- Spatial statistics
- Spectral Theory
- Splines and wavelets and applications
- Statistical Applications
- Statistical Computing
- Statistical Inference
- Statistical Mechanics
- Statistical Methods and Analysis
- Statistics and Probability
- Statistics Education
- Stochastic differential equations
- Stochastic Process
- Supercomputing and scientific computing
- Symbolic data analysis
- Time series analysis
- Topological Groups,
- Wavelets and Wavelet Transforms

Chemical Engineering and Applications
- Chemical engineering equipment design and process design
- Distillation, absorption and extraction
- Interfacial & colloidal phenomena
- Membranes and membrane science
- Multifase flows

- Particulate systems
- Physical, Theoretical and Computational Chemistry
- Rheology
- Thermodynamics
- Transport phenomena in porous/granular media

Chemistry and Chemical Engineering Fundamentals

- Bio-drug discovery
- Biorefinery
- Catalysis & reaction engineering
- Catalysts Synthesis
- Catalytic and Multiphase Reactors
- Chemical engineering equipment design and process design
- Chemistry and applied chemistry
- Hybrid and Membrane Processes
- Intelligent Polymers
- Interfacial & colloidal phenomena
- Ionic liquids/electrolyte solutions
- Kinetics of Complex and Hybrid Processes
- Micro Reactors
- New Catalytic Processes
- New materials & structured products
- Particulate systems
- Phase Equilibrium and Transport
- Photo- and Sono-Chemical Reactors
- Physical, Theoretical and Computational Chemistry
- Polymerization Reactors
- Polymers
- Process intensification
- Separation Processes
- Structured Systems
- VCE Chemistry

Chemical, Environmental, and Process Engineering

- Environmental engineering and sustainable development
- Nanotechnology
- Physical Chemistry
- Process design and optimization
- Process integration
- Product innovation, development and economics
- Sustainable & clean technologies

Multi-scale and/or Multi-disciplinary Approaches

- CFD & chemical engineering
- Controlled release of the active ingredient

- Energy & nuclear sciences
- Process system, instrumentation and control
- Product design & innovation
- Product engineering and product development

Systematic Methods and Tools for Managing the Complexity

- Multiscale modeling
- Process synthesis & design
- Process control & operations

Integration of Life Sciences & Engineering

- Biochemical Engineering
- Biological and Medicinal Chemistry
- Energy and environment
- Improvement of environmental remediation processes
- Physical chemistry and thermodynamics for life sciences and biotechnology
- Product Engineering in the Bio Industries
- Self-organisation in the Bio-sciences and elsewhere
- The impact of bio-based polymeric materials

Energy Science and Technology

- Alternative transportation fuels, sustainable transport
- Appropriate energy technologies for rural development,
- Clean coal technology and IGCC, fluidized bed systems
- Combustion system modeling and analysis, clean combustion
- Corporate Social Responsibility initiatives for energy management
- Development and Utilization of Biomass Energy
- Emission, climate change, implementation of emission
- Energy policy, planning and economics, energy and
- Energy:- conservation, management, efficiency and storage
- exploitation of fossil fuel resources and sustainability
- Impact of Climate Changes on Energy Systems
- Low energy society: Challenges, opportunities and mitigation Technologies
- New Energy Vehicles, Electric Vehicles
- Nuclear energy: Availability, Costing, Technologies, pathways
- Renewable Energy Standards
- Waste to energy and its management

Theory and practice of Sustainable Development

- Advanced Technologies for Wind Generation and Systems

- Biomass energy, materials and technologies
- Environmental Protection and Economic Development
- Fuel cells system and applications
- Next Generation (Nano) Photonic and Cell Technologies
- Optimizing Wind Power Resources
- Regional and International Energy Flows
- Reliability of Photovoltaic Cells, Modules, Components
- Thin Film Solar Technology

Advancement Energy

- Conservation (Tidal and Wave)
- Energy Conversion Techniques
- Energy Harvesting and Conservation
- Energy Storage Batteries and other Storage Devices
- Future Energy Technologies

Greening the Fossil Fuels

- Sustainable coal use and clean coal technologies
- Natural gas research and development
- Carbon and Methane capture, storage and utilization

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

- Biogas and biomass
- Energy and heat transfer
- Geothermal, Hydraulic
- Heating and Cooling Applications
- Hydro power
- Integrated energy systems
- Nanotechnology applications to RE
- New Perspectives of Renewable Energy
- Solar cell technology, Solar cell materials, testing and efficiency

Hydrogen & Fuel Cell

- Fuel Cell for Transportation, Power Plants and Co-generation
- Hydrogen End-Use Technology

Energy Economics

- Finance of energy
- Financial support, pricing, and regulation schemes

Energy Systems

- Combustion system modeling and analysis, clean combustion
- Energy and Exergy Analyses
- Energy-Environment Interaction
- Greenhouse cultivation, renew-able energy in agriculture.
- Low carbon heat and power (CCS, Nuclear, Wind, Solar,etc.)
- Natural gas water table content of basic research
- Oil and gas exploitation of new technology
- Waste to energy and its management

Green technology, Renewable energy and Environmental protection

- Climate and climatic changes
- Energy and Environment Energy Policy, Planning & Management
- Environmental policy in developing countries
- Environmental restoration and ecological engineering
- Global warming Green Energy Options
- Hydro power Industrial waste treatment
- Recycling technologies

Advanced Energy Technologies

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

Solar Photovoltaic Devices and Systems

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

Wind Energy

- Connecting Wind to the Grid
- Managing a Wind Farm
- Offshore Wind Power

International Convergence on energy

- Energy Diplomacy and National Security
- Global Crisis and Energy-Dependent-Economies
- Regional and International Energy Flows

Green Buildings and Infrastructures

- Energy efficiency in building designs and management
- Energy Saving in Buildings

Smart Buildings

- Building Information Modeling

- Passive House & nearly Zero Energy Buildings
- Benchmarking of Regulations on Energy Efficiency of Buildings
- Low Energy Architecture
- Integration of renewable energy sources in buildings

Greening Urbanization and Urban Settlements

- Rapid urbanization and energy-environmental implications
- Settlement forms and functions and energy
- Low carbon city scenarios, plans and actions

Green Policies and Programmes

- National bioenergy programmes: economic, political and social Issues
- Bioenergy supply management strategies

IMPORTANT DATES

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.internationalconf@gmail.com** on or before **24th July, 2021.**

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 **26th July, 2021** through email at- **info.internationalconf@gmail.com**

Submission of registration details:

Submission of Registration Form/Details: **28th July, 2021**. Registration process can be initiated after receiving acceptance letter of full paper.

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. All Selected papers will be available online after 10 to 25 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 alongwith their research paper and registration fees **(through RTGS/Wire Transfer or Online Transfer).**

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Registration Charges:

Categories	Indian Delegates	Rest of the countries
Academic Faculty/Industrial Delegates	**2000 INR**	**100 USD**
Research Scholars(Ph.D.)	**1500 INR**	**75 USD**
Students (UG and PG)	**1200 INR**	**50 USD**
Additional Pages as chapter in edited book/proceeding /in Journals	**300 INR**	**20 USD**
Only Certificates	**300 INR**	**20 USD**
Additional Research paper for same authors	**800 INR**	**35 USD**

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