SPONSORED

2nd International Conference on

Green Energy for Sustainable Development-2020 (ICGESD-2020)

28th and 29th February, 2020

Jointly Organized by

GOVERNMENT POLYTECHNIC, NAGPUR
(An Autonomous Institute of Govt. of Maharashtra)
(9 Diploma in Engineering Programmes Accredited by NBA New Delhi)
Mangalwari Bazar, Sadar, Nagpur 440 001 Maharashtra
Web site:- www.gpnagpur.ac.in

and

Maharashtra State Board of Technical Education (MSBTE) Mumbai
Glimpses of ICGESD-19

Key Note Speakers of ICGESD-20

**Dr. G. N. Tiwari**,  
Ex-Professor,  
Department of Energy Studies,  
Indian Institute of Technology (IIT), Delhi

**Mr. Arvind Kumar**  
Centre Head, TCS, Nagpur

**Dr. Zafar Ahmad Sheikh**,  
Professor in CSE  
Sas Al Nakhl school of Engineering Khalifa city, Abu Dhabi, UAE

**Dr. Manish Uttarwar**,  
Director (Innovation, Incubation and Linkages)  
Gondwana University, Gadchiroli

**Dr. Prarvej Ali**,  
Head of Science Unit,  
Center for Health Studies,  
Prince Sultan Military Medical City, Riyadh, Saudi Arabia.

**Dr. Vijay Babu**  
Professor,  
Chemical Engineering BATU, Lonere (MS)
About Institute:
Government Polytechnic, Nagpur is an oldest technical institution in central India. It was founded on 14th July 1914 as Government Engineering School. The school was expanded from 16 students enrolled in 1914 to 2000 in current year and Govt. Engineering School converted to Government Polytechnic, Nagpur.

Government Polytechnic, Nagpur is committed to contribute to excellence in technical education, to serve as valuable resource for industry and society. The institute is always upright in responding to changing educational needs of the world.

From academic session 1995 the institute was conferred with Autonomous status by Government of Maharashtra. The freedom to design, implement curriculum catering to the needs of industry and society is exercised due to autonomous status. The institute conducts assessment/evaluation and awards Diplomas too.

Some of the prestigious awards received by Government Polytechnic, Nagpur are as follows:
- State Award “Best Overall Performance 1996” (ISTE Narsee Monjee Award)
- State Award “Best Polytechnic, 1997”, (Govt. of Maharashtra)
- National Awards “Best Polytechnic, Student Chapter 2002”, (Institute of Engineers (India))
- National Awards “Best Polytechnic, Student's Project, 2002” (ISTE Narsee Monjee)
- State Award “Best Overall Performance 2016” (ISTE Narsee Monjee Award)
- National Education Award for “Best Technical Educational Institute in Maharashtra State-2016”

Nine Diploma programmes of Government Polytechnic, Nagpur are accredited by National Board of Accreditation, (NBA), New Delhi recently.

About Nagpur City:
Nagpur is located at the exact centre of the Indian peninsula. The city has Zero Mile Stone located at the geographical centre of India, which was used by the British to measure all distances within the Indian subcontinent. The city gets its name from the river Nag, which flows through the city, originating at a small village called Lavha. It is famous for Oranges and is known as the “Orange City” for being a major trade centre of oranges cultivated in the region. Various attractions of the Nagpur city and nearby are Zero Mile, Tajbag, Dikshabhumi, Ambazari Lake, Raman Science Centre, Sitabuldi Fort, Tekadi Ganesh Temple, Dragon Palace, Shree Ram Temple, Ramtek, Khindasi and Tadoba.

About Conference:
This highly exciting and challenging International Conference on Green Energy for Sustainable Development ICGESD-20 is intended to be a forum, discussion and networking place for academicians, researchers, professionals, administrators, educational leaders, policy makers, industry representatives, students, and others.

Call of Papers & Conference Theme:
Green energy is renewable energy. Green energy has a far greater impact on the environment than other types, which produces pollutants like greenhouse gases as a by-product, conducive to temperature change. Green energy, however, utilizes energy sources that are readily available everywhere in the world. Advances in renewable energy technologies have lowered the value of solar panels, wind turbines and alternative sources of green energy, placing the power to supply electricity within the hands of the people instead of those of oil, gas, coal and utility companies.

Conference Tracks:
The organizers invite research papers in the following Science and Engineering Tracks in spot presentation format only. The topics include:

**Track 1: Science**
- Green and Sustainability Chemistry
- Green Polymer and Plastic Chemistry
- Pollution Prevention
- Nano Technology
- Luminescence Nanostructure
- Super Capacitor Material
- Solar materials
- General Theory of Relativity
- Number Theory
- Green Chemistry: Challenges and Opportunity
- Green Fuels and Alternative Energy
- Energy Science
- Multifunctional Materials
- Organic Light Emitting Material
- Energy Materials
- Boundary Value Problem
- Operational Research and Mathematical Modeling

**Track 2: Mechanical, Automobile, Metallurgy**
- Technologies in automotive industries
- Green fuels
- Hydrogen production technologies
- Clean Energy Technologies
- Hybrid Energy Systems
- Composite and Smart Materials
- Self healing composites
- Non destructive evaluation
- Heat Treatment of Metals & Alloys
- Environmental friendly materials
- Heat and Mass transfer modeling
- Carbon Capture and storage (CCS)
- Fuel Cells
- Hybrid Vehicles
- Green Manufacturing and Engineering
- Nano materials
- Secondary steel making
- Casting and Solidification
Track 3: Electrical, Electronics, Computer and Information Technology
- Climate Change Mitigation and environmental impacts of energy systems
- Energy System and Efficiency Improvement
- Power Generation and Systems
- Smart Grids
- Policy and Economics
- Modeling
- Big data Analytics
- Artificial Intelligence
- Metallurgical Thermodynamics
- Mechanical Metallurgy
- Advanced Energy Technologies
- Power transmission and distribution
- Energy Management
- Energy Storage
- IOT
- Automation and Robotics

Track 4: Civil, Construction, Architecture and Rural Technology
- Green Building
- Ecosystems and Natural Environments
- Architectural Impact on the Natural Environment
- Environmental Policies
- Water Policies and Management
- Remote Sensing And GIS Application in Natural Resources Management
- Advances in agriculture equipments
- Green Architecture
- Sustainable Architecture
- Zero Energy and Smart Buildings
- Transport Policies
- Urban and Rural Ecology

Track 5: Technical Education & Management
- Need of Accreditation in Technical Education
- Ethics in Technical Education
- Lifelong Learning
- Social and emotional teaching and learning
- New tools for Learning
- Skill Development
- E-learning
- Tools for evaluation and assessments
- Course Outcome, Program Outcome Attainment Methodologies
- Education for Environmental Sustainability
- Environmental awareness teaching and learning
- Teaching for social change
- Extra-curricular activities for social awareness
- Learning for employment
- Virtual labs
- Emerging technologies in teaching and learning
- Innovations in e-Learning
- Leadership, management innovation & practices
- ICT in Engineering Education

Track 6: Textile Engineering and Travel and Tourism
- Eco-Textiles
- Recycling of textiles
- Fashion Technology
- Automation in Textiles
- Urban Tourism and Cultural Heritage
- Tourism and Environment
- Green Hotel building
- Eco-friendly vehicles at the destination
- Paperless travel and Tourism Practices
- Advanced Textile Fibres
- Textile composites
- Technical Textiles
- Protected Areas and Tourism
- GIS Application in Tourism
- Sustainable Tourism
- Practices/ Eco-friendly practices in Travel and Tourism Industry

Track 7: Mining Engineering and Packaging Technology
- Mining Engineering and Mineralogy
- Rock Mechanics
- Material handling
- Minerals processing
- Industrial Management
- Mine health and Safety
- Design of Engineering Structures
- Green Packaging materials
- Material Science and Technology
- Glass, Metal & Textile based packaging materials
- Ventilation
- Mine Planning
- Drilling and Blasting
- Ore Reserve analysis
- Mine cost engineering
- Environmental aspects of mining
- Packaging Technology
- Graphic Arts and Design
- Plastics in Packaging
- Digital imaging and color management

Call of Papers:
Prospective authors are invited to submit full text of papers including results, tables, figures and references. All papers should report in original, previously unpublished research results, experimental or theoretical. Papers should fulfil these criteria and must not be under consideration for publication elsewhere. Manuscripts should follow the IEEE conference template format and are subject to both review and editing. Author(s) should clearly mention the track of paper. Author(s) should submit their paper(s) to greeneenergy582@gmail.com before last date of submission. Acceptance of papers will be communicated after review of paper and will be informed by mail regarding registration, publication in journal, etc.
Registration Details:
Last date of Abstract Submission: 27th Jan 2020.
Participant Registration Fees:

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<th>Delegate Category</th>
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The registration fee is per person and includes conference kit, lunch tea/coffee and does not include journal publication charges. The registration fee can be paid by DD drawn in favor of “Chairman, NC GP, Nagpur”, payable at Nagpur. Please mention name/s and mobile no. on the backside of DD. Or online payment /NEFT to following account. Send transaction Slip to:

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Dates to Remember:
Submission of paper/abstract: 27th Jan 2020
Notification of Acceptance: 31st January, 2020
Date of Conference: 28th and 29th February 2020

The shortlisted papers of the conference will be sent for publication in UGC approved (CARE) and Scopus Indexed journals.

Address for Correspondence:
The Convener, ICGESD-2020,
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- The Institution of Engineers (India), NLC, Nagpur
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