

KEYNOTE SPEAKERS

Dr. Narayanan Neithalath,

Professor, School of Sustainable Engineering and the Built Environment,
Arizona State University, Tempe AZ 85287-3005

Mr. Simon David Chunkath,

IT Director- Enterprise Project Management Office, Medtronic, USA

Dr. A. N. Brijesh Nair,

Professor, Civil Engineering & Assistant Director (International
Relations), Vellore Institute of Technology, Vellore.

Dr. Shaji Krishnan,

Senior Scientist Mathematical Modelling, Risk Analysis for Products
in Development

Topic : Overview of Advancements in Technology for Tapping Green
Energy

Mr. Ramaswamy Krishnan

Senior Software Developer, Microsoft, United States

Topic : Recent trends in electromechanical engineering and the fourth in-
dustrial revolution, augmented reality and 3D printing

Coordinators

Dr. Sindhu R, Professor, ECE Department

Dr. Mayadevi S., Head of Department, Chemistry Department

Prof. Pradip C, Associate Professor, EEE Department

Prof. Deepa M K, Assistant Professor, ICE Department

Prof. Sreelekshmi P. S., Assistant Professor, ECE Department

Prof. Sruthy Manmadhan, Assistant Professor, CSE Department

Prof. Dipin Kumar R, Assistant Professor, ME Department

Prof. Leena N, Assistant Professor, EEE Department

Prof. Chitra S Nair, Assistant Professor, CSE Department

Dr. Keerthy M Simon, Assistant Professor, CE Department

Prof. Krishnachandran V. N., Assistant Professor, CE Department

REGISTRATION FEES

The amounts are as listed below

Industry/ R&D organisation	-Rs.10,000/-
Faculty	-Rs.5,000/-
Research scholar/Students	-Rs.4,000/-
Delegates	-Rs.2,000/-
International delegates	-\$200

Mode of Payment: Through Online banking

The participant's registration fee includes admission to all scientific sessions,
refreshments during session breaks, lunch and a soft copy of proceedings.
Accommodation will be arranged on payment basis.

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Scientist, IBM T. J. Watson, Research Center, New York, USA.

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Professor, University of Illinois College of Medicine, USA

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Senior Director, Engineering Qualcomm Inc. San Diego, California

Dr. Prahlad Vadakkepat,
Associate professor, Dept. of Electrical and Computer Engineering, National University of Singapore

Dr. Smitha Kavallur Pisharath Gopi,
School of Computer Science and Engineering, Nanyang Technological University,
Singapore

Sreekumar Vadakkepat,
Principal - CX Ecosystem Leader, Group Strategic Initiatives and Partnerships,
Capgemini America Inc. 425 Brannan St, San Francisco

Dr. Sunday Ayoola OKE,
Associate Professor, University of Lagos, Akoka Yaba, Nigeria

Dr. Zakariya KM,
Professor, King Saud University, Saudi Arabia

Dr. ZDENEK PBAZANT,
Professor of Civil and Mechanical Engineering, Northwestern University, Illinois 60208-3109, USA

Dr. P. S. Anilkumar,
Professor, Department of Physics, IISc Bangalore.

Dr. J. M. Chandra Kishen,
Professor, Department of Civil Engineering, Indian Institute of Science,
Bangalore-560012, India

Dr. R. Gunabalan,
Associate Professor, School of Electrical Engineering, VIT University Chennai Campus, Chennai

Dr.Kiran vijayan,
Dept of Ocean Engg&Naval architecture, IIT Kharagpur

Dr. Kumaravel, S,
Assistant Professor, Dept. of Electrical Engineering, NIT-Calicut

Dr.Murugan.S,
Professor-Mechanical, NIT Rurkula

Dr.Pradeep.AM,
Professor-Aerospace department, IIT Bombay

Dr. M. Suresh
Chief Research Engineer, FCRI, Kanjikode, Palakkad

Dr. D. Roy Mahapatra,
Associate Professor, Department of Aerospace Engineering, Indian Institute of Science, Bangalore

Mr. Sanjay Dave,
Vice President & Sector Head, Engineering Management (CEMG), Hindustan
Construction Co. Ltd., Vikhroli (W), Mumbai

Sriram Balasubramanian,
Director, IP Engineering Synopsis, Bangalore, India Pvt. Ltd.

Dr. J Sudhakumar,
Professor, Department of Civil Engineering, NIT Calicut

Dr Ajith Prabhu,
Scientist(G): KSCSTE, Thiruvananthapuram



NSS
COLLEGE OF
ENGINEERING
Palakkad, Kerala, India



INTERNATIONAL CONFERENCE ON SUSTAINABLE TECHNOLOGY APPLICATIONS FOR GREEN ENERGY SOLUTIONS (STAGE 2020)

17th July 2020 to 18th July 2020

Celebrating its diamond jubilee in the year 2020, NSS College of Engineering, Palakkad welcomes you to attend the International Conference on Sustainable Technology Applications for Green Energy Solutions. We cordially invite all the researchers who are interested in sharing their knowledge and research in the arena of Green Technology. STAGE-2020 will be a platform for researchers/scientists to share and globalize their research work while the participants from industry can share the case studies on their R&D activities thus enabling dissemination of knowledge upholding sustainable practices.

About The Theme

The term "technology" refers to the application of knowledge for practical purposes. The field of "green technology" encompasses a continuously evolving group of methods and materials, from techniques for generating energy to non-toxic cleaning products. The present expectation is that this field will bring innovation and changes in daily life of similar magnitude to the "information technology" explosion over the last two decades. In these early stages, it is impossible to predict what "green technology" may eventually encompass. The goals that inform developments in this rapidly growing field include:

Sustainability, "Cradle to cradle" design, Source reduction, Innovation and Viability

Call for Papers

Authors are invited to submit unpublished and original research articles in the following areas but not limited to

Theme : Intelligent systems in measurement and automation (ISMA)

Subthemes

- Process control and automation • Neural network and fuzzy logic • Aerospace engineering
- Biomedical engineering and bio signal processing • Control engineering
- Instrumentation and smart sensors • Robotics and automation • Virtual instrumentation and data acquisition • IoT in instrumentation

Theme : Green Communication, Computing and Technology

Subthemes

- Controlled Energy reduction techniques for FPGAs • Intelligent automation and control algorithms for energy management systems • Energy efficient communication in wireless channels • Energy efficient Cognitive Radio Networks • Design and Modelling of energy saving chip and hardware • Nanoscale integrated Electronics • Sustainable Practices in Medical electronics
- Smart Antennas for future generation networks • IoT and Embedded systems • Smart Grid Networks and Protocols • Energy harvesting and conservation techniques for wireless sensor networks • Reliable and energy efficient adaptive digital signal processing • Self organizing networks

Theme : Advances in power conversion and renewable energy technology

Subthemes

- Distributed Generation • Modelling and Simulation of Power Electronic Circuits
- Energy conversion and management • Renewable energy technologies • Control methods in Renewable energy systems • Power Quality Management and Stability Analysis
- Electric Vehicles • IoT and Embedded System Technology • Design and Optimisation of Electric Drives • Adaptive control of electric drives • Smart energy, Smart grid and Smart cities
- Applications of Artificial Intelligence in Electrical Engineering
- Data Analytics in power system • Energy efficient lighting systems

Theme : Sustainable technologies in Mechanical Engineering

Subthemes

- Green energy engineering • Green and sustainable manufacturing • Renewable Energy and Technology • Lean Manufacturing • Advances in additive manufacturing • CAD/CAM/CIM/Reverse Engineering • Artificial intelligence and Robotics • Recent developments in Thermal sciences
- Cryogenics • Smart Materials and Manufacturing • Fluid Mechanics and Microfluidic
- Mechatronics and MEMS • Precision Engineering • Advances in Non-traditional manufacturing
- Non Destructive Techniques • Advanced Welding and Casting Techniques
- Industrial Engineering • Automobile engineering and Hybrid Vehicles

Theme : Sustainable practices and advancements in civil engineering (SPACE)

Subthemes

- Green Materials • Pollution Prevention and Clean Technology Practices • Repair and rehabilitation
- Sustainable Construction and design practices • Renewable Energy Infrastructure • Energy and Climate Protection Strategy • Waste Management • Water Management • Sustainable Sanitation
- Holistic approach in Planning and Design of urban and transportation Infrastructure

Theme : Next Gen Information Systems and Technologies (NGIST'20)

Subthemes

- Green and Sustainable Computing • Informatics and Scientific Computing • Fog computing
- Image Processing in computer graphics and Computer vision • Information Retrieval and Information Systems • Machine Learning & Natural Language Processing • Big Data Analytics • Virtualization and Cloud Computing • IoT (Internet of things) • Social Network Analysis • Human-Computer Interaction • Multi-agent Systems • Predictive Analytics Applications in Healthcare, Finance, Climate change and Business • Web Intelligence and Computing • Wireless Networks

PUBLICATIONS

All accepted papers will be published in SCOPUS indexed publications /UGC recognised journals/Conference Proceedings based on the reviewer's recommendation. Maximum number of pages is limited to 7 pages.

For more details

Visit STAGE-2020 website.

IMPORTANT DATES

- Last date for abstract submission - 10th November 2019
- Full paper submission - 25th January 2020
- Notification of acceptance - 25th March 2020
- Camera ready paper submission - 25th April 2020



NSS COLLEGE OF ENGINEERING

About NSSCE

Bharatha Kesari Late Sri. Mannath Padmanabhan, the immortal founder of Nair Service Society and a great social reformer had an immensely profound sense of promoting Technical education in Kerala while he designed this beautiful and evolving campus of NSS College of Engineering in 1960. Nair Service Society has been playing significant role in the social, economic and educational transformations of the state and runs more than hundreds of schools, fifteen Arts and Science Colleges, three Training Colleges, one Engineering College, One Homeo Medical College, Ayurveda Medical College, several Nursing Colleges, Polytechnic College, T.T.C Schools, Working Women Hostels and Technical institutions.

NSS College of Engineering, a premier engineering educational institute in Kerala, managed by Nair Service Society, affiliated to AICTE and APJ Abdul Kalam Technological University completes 60 years of existence in the map of technical education in the nation. It offers six undergraduate and five post graduate programmes in the disciplines of engineering out of which five UG Programmes (ME, CE, EEE, ECE & ICE) are accredited by National Board of Accreditation. This Government aided institute has highly qualified faculty members with a broad spectrum of specializations and well equipped laboratories, education to meet the scientific and technological needs of the society.

Situated in Palakkad District of Kerala in Southern India, the campus is easily accessible, being only 4 km from the Palakkad Junction Railway station and 65 kilometres from the Coimbatore International Airport. Nestling among verdant foothills of Western Ghats, the institution is a tranquil and serene setting for higher education.

Our Mission

"To be a premier institution producing self motivated professionals of global standards through quality education to meet the scientific and technological needs of the society".

Our Vision

"To leapfrog into global excellence in technology and education in the present millennium".



For further information contact:

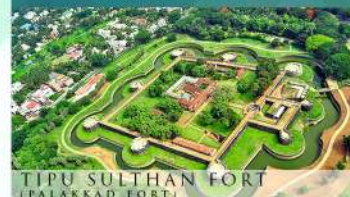
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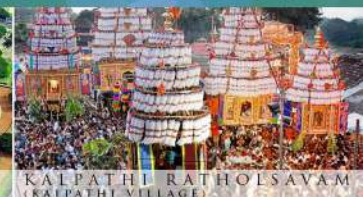
THE WESTERN GHATS

PALAKKAD

THE GATEWAY TO KERALA



TIPU SULTHAN FORT
(PALAKKAD FORT)



KALPATHI RATHOLSAVAM
(KRUPATHI VILLAGE)



MALAMPUZHA DAM

KERALA

GOD'S OWN COUNTRY

Flanked by the Arabian Sea in the West, the towering Western Ghats in the East and networked by 44 interconnected rivers, Kerala is blessed with a unique set of geographical features that have made it one of the most sought after tourist destinations in Asia. A long shoreline with serene beaches, tranquil stretches of emerald backwaters, lush hill stations and exotic wildlife, are just a few of the wonders that await you once you crossover to the other side. Bestowed with a pleasant and equable climate throughout the year, Kerala is a tropical land where one can relax and be at ease.

The Monsoons (June-September and October-November) and summer (February-May) are the seasons markedly experienced here, while Winter is only a slight drop in temperature from the normal range of 28-32°C.