

## WORKSHOP CONCEPTION AND COORDINATION

1. **Mr. S.RAMALINGAM**,  
Senior Executive Fellow, WISE, CANADA  
National President, ENFUSE.
2. **Mr. V. SRIRAM**, DGM, Process Engineering, CPCL.
3. **Dr. K. MAMALLAN**, Manager, HSE, CPCL
4. **Prof. R. DORAIRAJ**  
Former Associate Project Director/GSLV/ VSSC, ISRO.

## TARGET PARTICIPANT

- Faculty members from Engg. Colleges / Universities
- Research scholars & UG/PG students.
- Academicians and R&D personnel from industries
- based on first-come-first-serve.

## REGISTRATION LINK

<https://forms.gle/jKBjKma2mubZk3D28>

## REGISTRATION FEE

**UG/PG and research scholars : Rs.500**  
**Faculty Members : Rs.1000**  
**Industrial Participants : Rs.1500**

## DATES TO REMEMBER

Register By : **25<sup>th</sup> Nov 2019**

Intimation of Selection : **29<sup>th</sup> Nov 2019**

## REGISTRATION FEE INCLUDES

- Lunch & Refreshment
- Workshop Kit
- Accommodation can be arranged on request on sharing basis for outstation participants in University Hostels. Nominal Charges per day, inclusive of breakfast and dinner.

## PATRONS

**Dr. T.R. Parivendhar**, Founder Chancellor  
**Shri. Ravi Pachamoothoo**, Chairman  
**Dr. P. Sathyanarayanan**, President  
**Dr. R. Shivakumar**, Vice-President

## ADVISORY COMMITTEE

**Dr. Sandeep Sanchetti**, Vice-Chancellor  
**Dr. T.P. Ganesan**, Pro Vice-Chancellor (P&D)  
**Dr. N. Sethuraman**, Registrar  
**Dr. C. Muthamizhchelvan**, Director (E&T)  
**Dr. S.R.S. Prabakaran**, Joint Director (Research)

## CONVENERS

**Dr. K. Vijayakumar**,  
Professor & Head, Dept. of EEE.  
**Dr. A. Rathinam**,  
Professor, Dept. of EEE.

## COORDINATORS

**Mr. S. Senthilmurugan**, Asst. Prof (Sr.G) / EEE  
e-mail: [senthils8@srmist.edu.in](mailto:senthils8@srmist.edu.in)  
Mobile: 9894296319, 9884496319  
**Dr. R. Sridhar**, Assoc. Prof /EEE  
e-mail: [sridharr@srmist.edu.in](mailto:sridharr@srmist.edu.in)  
Mobile: 9176652907

## ADDRESS FOR COMMUNICATION

**The Convener-IWSACEH 2019**,  
Department of EEE  
Faculty of Engineering and Technology  
SRM IST, Kattankulathur  
Chennai, Tamil Nadu- 603203 ,INDIA.

**e-mail : [wsineee@gmail.com](mailto:wsineee@gmail.com)**



**SRM**  
INSTITUTE OF SCIENCE & TECHNOLOGY  
(Deemed to be University u/s 3 of UGC Act, 1956)

# INTERNATIONAL WORKSHOP ON **ACCESS TO AFFORDABLE CLEAN ENERGY TO HUMANITY** (A Multi Disciplinary Workshop)

**5, 6 & 7 December, 2019**

Co Sponsored By



Faculty of Engineering and Technology  
Department of Electrical and Electronics Engineering

In association with





## ABOUT THE INSTITUTE

SRM Institute of Science and Technology (formerly known as SRM University) is one of the top ranked universities in India with over 50,000 students and 3,177 faculty members, offering a wide range of Undergraduate, Postgraduate and Doctoral Programs in Engineering, Medicine & Health Sciences, Management, Science & Humanities, Law, and Agricultural Sciences. It has reached beyond borders to universities and corporate across India and around the World. There are four sprawling campuses - three in and around Chennai, and one near New Delhi - spread across 250 acres with all facilities. SRM IST is accredited by NAAC with the highest Grade of 'A++'. QS, the world renowned international ranking agency, has rated SRMIST as 'Four Star, Institute and QSIGAUCE has awarded Diamond Rating to SRMIST. SRMIST is classed as Category I University by UGC/MHRD and enjoys 12B status too under UGC Act.

## ABOUT EEE DEPARTMENT

Electrical and Electronics Engineering is a continuously evolving subject. As technology has advanced, so have the challenges facing the modern engineer. EEE is a subject that naturally partners with other disciplines to open whole new engineering avenues. The EEE Department at SRM Institute of Science and Technology (formerly known as SRM University) prepares students in this field using new-age information and computer-intensive technologies.

ENFUSE abbreviation for Energy and Fuel Users Association of India is an NGO representing a wide spectrum of Indian Organisations that seek to maximize the effectiveness of energy and fuel usage through various means. At SRM, Enfuse student team has conducted technical seminars, industrial visits, hands-on workshops, theory to practice lectures, energy awareness walkathons etc.

<http://www.srmuniv.ac.in/departments-of-electrical-and-electronics-engineering/faculty>

## ABOUT WATERLOO UNIVERSITY

Waterloo goes beyond the classroom, to a place where experience is the teacher. Beyond problems to solutions that address social, technical and economic needs. Beyond the laboratory, to the research that propels industries, organizations and society. Our incredible people and partners take us beyond the lives we're living today, to find solutions to

the global challenges that lie ahead. Creating change that goes beyond the status quo and is felt around the world. Waterloo goes beyond—to challenge, connect and propel our world.

<https://uwaterloo.ca/>

## ABOUT WISE

At WISE, we recognize that the energy issues facing our society are complex. That's why our over 100 experts are drawn from dozens of different disciplines spanning engineering, environment, science, applied health studies, math and arts. Energy issues also involve multiple stakeholders. We work closely with utilities, private-sector partners, government and the non-profit sector to ground our work in real-world issues. We offer our partners the full spectrum of energy R&D, education and training and commercialization activities.

## CONCEPTUALIZATION OF THE WORKSHOP

There is an increasing realization the world over that development in its truest sense can only take place when economic growth fosters sustainable development. Over the last century the burning of fossil fuels like coal and oil has increased the concentration of atmospheric carbon dioxide (CO<sub>2</sub>) which has led to a drastic climatic change. Effective technologies are being explored not only to alleviate the CO<sub>2</sub> emissions but also to utilize CO<sub>2</sub> for the production of other fuels. The use of renewable energy sources and sustainable development are two separate variables that are interconnected. The major potential barrier involved in these green energy sources is its intermittent output power and load compatibility. Thanks to the advanced control schemes and modern power electronic regulators and increased conversion efficiency, power maximization from renewable sources are possible.

Energy conservation and sustainable development can also be achieved through non-conventional and novel practices. For example, Nondestructive testing (NDT) is the process of inspecting, testing, or evaluating materials, components or assemblies for discontinuities, or differences in characteristics without destroying the serviceability of the part or system. In all, Sustainable Development has a multidisciplinary perspective. So, there is an urgent need to bring together researchers and scholars from various streams to bring about a lasting change. This international workshop on "International workshop on Access to Affordable Clean Energy to Humanity" is not only aimed at bringing the

multidisciplinary researchers under one umbrella but also to exchange ideas, forge new connections to extend and develop partnerships between the researchers from India, Canada and other Countries.

## TOPICS COVERED

- Carbon dioxide capture – storage – conversion.
- Electric mobility – technology – infrastructure
- Hydrogen energy – commercialization in industries
- Smart Energy Networks
- Internet of Things (IoT)
- Solid Waste Management & disposal – recyclable
- Advanced State Space Controller
- Battery Technologies
- Renewable Energy Integration
- Maximum Power Tracking Schemes
- Non Destructive Testing

## INTERNATIONAL RESOURCE PERSONS

### 1. Dr. JATIN NATHWANI

Executive Director, WISE, Canada

### 2. Dr. MAURICE DUSSEAUT

Professor, Environment Engineering,  
University of Waterloo, Canada

### 3. Dr. ALIREZA DEGHANISANJI

Post Doctoral Research,  
WISE, Canada

### 4. Dr. BIJANMAHAZ

Post Doctoral Research,  
University of Waterloo, Canada

### 5. Eng. MOHAMMED MAMDOGN ELKARDRAGY

Scientist, KIT, Germany

### 6. Dr. Doug Beyon

CEO, Advanced Chemical Technologies, Canada