

TARGET PARTICIPANTS

- Faculty members of Engineering Colleges / Universities
- Research scholars, UG & PG Students pursuing research / project work in this field.
- Industry personnel

REGISTRATION DETAILS

The interested participants should register online at <https://tinyurl.com/CROUC19>

- Confirmation of registration will be sent by email.
- Registration Fee Payment only through NEFT will be accepted.

REGISTRATION FEE

Academics- Rs. 800/-
Industry Persons- Rs. 1000/-

BANK DETAILS

Bank: City Union Bank, Tambaram
Branch Code: 117
IFSC Code: CIUB000117
Account Number: 11700 10008 84762
Account Name: ECE Association.

REGISTRATION FEE INCLUDES

- * Lunch and Refreshment
- * Workshop Kit

NOTE

No TA / DA will be provided
Paid accommodation may be provided on request.

IMPORTANT DATES

Last date of Registration : 5th September 2019
Intimation of selection : 7th September 2019

PATRONS

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

ADVISORY COMMITTEE

Dr. Sandeep Sancheti, Vice-Chancellor
Dr. T. P. Ganesan, Pro Vice-Chancellor (P&D)
Dr. N. Sethuraman, Registrar
Dr. C. Muthamizhchelvan, Director (Engg. & Tech.)
Dr. T. Rama Rao, Prof & Head, Dept. of ECE
Dr. B. Ramachandran, Professor, Dept. of ECE
Dr. R. Kumar, Professor, Dept. of ECE

ADDRESS FOR COMMUNICATION

Dr. S. Dhanalakshmi (Convener)
Associate Professor, ECE Department
Faculty of Engineering and Technology
SRM IST, Kattankulathur – 603 203.
Mobile : +91 8056256491 / 8056311879
Email: jabadeva@srmist.edu.in / nivedhap1@srmist.edu.in



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



All India Technical Two Day Workshop on **Challenges** & **Research Opportunities** in Underwater Communication September 20th & 21st – 2019



ORGANIZED BY

DEPARTMENT OF ECE
Faculty of Engineering & Technology
SRM INSTITUTE OF SCIENCE AND TECHNOLOGY
Kattankulathur – 603 203
Phone: 044-27452270, 27453380.
Website: www.srmuniv.ac.in

In association with
NAVAL RESEARCH BOARD, DRDO.

Venue : Sir. J. C. Bose Hall, 12th Floor, Tech Park

ABOUT THE INSTITUTE

SRM Institute of Science and Technology is one of the top ranking Universities and most premier engineering destinations in India. It was established in 1985 by the Founder Chancellor Dr. T.R. Paarivendhar. SRM IST is functioning in four campuses located at Kattankulathur, Vadapalani and Ramapuram in Tamilnadu and a fourth campus at Modi Nagar, Ghaziabad with over 50,000 students and 3,020 faculty members. SRM IST offers a wide range of undergraduate, postgraduate and doctoral programs in Engineering, Management, Medicine & Health Sciences, Law and Science & Humanities.

The Institution has grown up through international alliances and collaborative initiatives to achieve global excellence. Over 150 students are sponsored for 35 foreign Universities like MIT, Carnegie Mellon, UC Davis, Warwick and Western Australia. Now the Institute enjoys an unsurpassed reputation in academic and corporate circles being as the preferred human resource, for its vision to be as a world - class learning institution. SRM IST has been categorized as grade A University by Ministry of Human Resource Development (MHRD); Government of India. SRM IST is accredited by NAAC with highest A+ + Grade in the year 2018.

ABOUT THE DEPARTMENT

The Department of Electronics and Communication Engineering (ECE) was established in the year 1991-92 with an undergraduate program under the affiliation of University of Madras. The Department offers one UG Program, three PG programs and Doctoral Program. The Department is housed with adequate number of spacious lecture rooms and has 18 well equipped and furnished laboratories. The department has ample resources in computing equipment, including Personal computers running the full suite of Cadence, OrCAD, MATLAB, Network Simulation software and Optisystem. It has USRP-RIO SDR Hardware, Vector Signal Generator & Analyser, Network Analyser and ADS & HFSS tools.

The department has strong collaboration with industries such as Central Electronics Engineering Research Institute (CEERI), Nuvoton Technology Corporation, Taiwan and ALTERA. The Department has received funds from AICTE twice under MODROBS (Modernization and Removal of Obsolescence) scheme and one under the 'Career Award for Young Teacher (CAYT)' scheme. It has also received research grants worth Rs. 150 Lakhs from Department of Science and Technology (DST) under Funds for Improvement of Science and Technology (FIST).

ABOUT THE WORKSHOP

Exploring research challenges in designing underwater optical communication systems has become a substantial part in current research domain. The main aim of this two-day workshop is to provide insight in to the emerging research opportunities in underwater optical communication systems, in terms of design and application to the end users. This workshop imparts knowledge on designing optical devices and systems to the participants who are interested to explore in this specific area of research.

RESOURCE PERSONS



Dr. Balaji Srinivasan

Professor,
Fiber Lasers and Sensors Group,
Department of Electrical Engineering,
IIT Madras.

Topic: Challenges in the Design of Reliable Underwater Communication Systems



Dr. C. V. K. Prasada Rao

Former Scientist, NPOL (DRDO), Kochi.
Chairman, Ocean Environment Panel
(OEP), Naval Research Board (NRB),
DRDO, New Delhi.

Topic: Ocean Environment from Sonar Systems Perspective



Mr. Jaspreet Singh

CEO, Fiberonics Ltd.,
New Delhi.

Topic: Monitoring Strain, Gas and Temperature using SBS-based optical fiber sensors



Dr. S. K. Mishra

Scientist,
Instruments R&D Establishment,
Defense R&D Organisation,
Dehradun-248008, Utrakhand (INDIA)

Topic: Optical Wireless Communication for Underwater Communication



Dr. Dhanalakshmi Samiappan

Associate Professor,
Department of ECE.,
SRM Institute of Science & Technology,
Kattankulathur.

Topic: Instruments and Sensors for Ocean Observation



Mr. Tata Sudhakar

Scientist G,
Head of Ocean Electronics Group,
National Institute of Ocean Technology,
Pallikaranai.

Topic: Underwater Communication for Tsunami Warning System



Mr. Sripadaraja K

Product Manager,
SriDutt Technologies Pvt Ltd.,Bengaluru,
Karnataka.

Topic: FBG Sensing and Underwater Communication using Lumericals Software



Mr. Arindam Banerjee

Senior Manager,
Telecom Photonics,
MEL Systems & Services Limited,
Chennai.

Topic: Choice of Sources and Detectors for Wireless Underwater Optical Communication System

Demo session: Beeclust Research Team, SRMIST



Topic: Search and Rescue
Operation using Multi Robot System
for Under Water Applications

Software Tool Demonstration on

- ★ VPI Photonics
- ★ Lumericals