

Report on one day workshop on MicroElectroMechanical System (MEMS)

One Day Workshop on
Micro Electro Mechanical Systems (MEMS)
(12th September 2018)

REGISTRATION FORM

Name :
Designation :
Organization :
Mailing Address :
Mobile :
E-mail :

Registration Fees:

Students / Research Scholars / Faculty from
Institutions : Rs. 500

Address for Correspondence:

Co-Ordinators
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Place: _____
Date: _____ Signature



One Day Workshop on
Micro Electro Mechanical Systems
(MEMS)
(12th September 2018)

Tan Sri Dato' Sri Prof. Ir. Dr. Sahol Hamid Bin Abu Bakar
Vice Chancellor
Patron

Dr. A. Azad Ph.D.
Registrar
Co-Patron

Dr. S. Raja Mohideen
Professor & Dean (SECS)

Dr. S. Rasool Mohideen
Professor & Dean (SMS)

Dr. Y. Mohamed Shuaib
Asso. Professor & HOD (EEE)
Convenors

Mr. K. Saran Kumar, AP/Mech
Mr. A. Paramasivam, AP/EEE
Co-ordinators

Organized By
Department of Electrical and Electronics Engineering
& Department of Mechanical Engineering
BSA Crescent Institute of Science & Technology

ABOUT THE INSTITUTE

B.S. Abdur Rahman Crescent Institute of Science and Technology, a Deemed to be University in Chennai is a 4-Star rated QS World University Rankings varsity with over 34 years of Academic Excellence. The institute aspires to be a leader in Education, Training and Research in Engineering, Science, Technology and Management, and play a vital role in the Socio-Economic progress of the Country.

B.S. Abdur Rahman Crescent Institute of Science and Technology, Vandalur is located in the outskirts of Chennai city on the G.S.T. Road, (Chennai-Trichy National Highway) 7 km from Tambaram and 2 km from Vandalur Railway Station and 17 km from the International Airport. Being adjacent to the Arignar Anna Zoological Park, it is easily accessible by city buses.

ABOUT THE DEPARTMENTS

MECHANICAL ENGINEERING

The department of Mechanical Engineering started in 1984, is one of the oldest departments of this institution. A high degree of professionalism is inducted to the students through student chapters of professional associations such as American Society of Mechanical Engineers (ASME), Society of Automotive Engineers (SAE), Indian Society for Heating Refrigeration and Air-conditioning (ISHRAE) and Society of Mechanical Engineers. The department organizes programmes to provide the students with industrial and practical experience through training and project work in industries to meet the industrial requirements and face real life situations. The Department of Mechanical Engineering offers the following programmes at undergraduate and postgraduate level:

- B.Tech. Mechanical Engineering
- B.Tech. Mechanical Engineering (Part Time)
- M. Tech. CAD/CAM
- M. Tech. Manufacturing
- M. Tech. CAD/CAM (Part Time)
- M. Tech. Manufacturing (Part Time)
- Ph.D. - Full Time / Part Time

ELECTRICAL & ELECTRONICS ENGINEERING

The Department of EEE was established, when Crescent Engineering College got established in the year 1984. The department is having excellent and dedicated team of faculty, supporting staff members and motivated students. The department of EEE is offering B.Tech (Electrical and Electronics Engineering), M.Tech (Power System Engineering), M.Tech. (Power Electronics & Drives), Part Time B.Tech. (EEE) – Exclusively for M.A. Apollo tyres, Chennai and Ph.D. Research Program.

The UG and PG programmes are both accredited by NBA. The department has well equipped laboratories and research facilities. There are 15 licensed industry standard software for the benefit of students and research scholars. The department has collaboration with premier institutions and industries. The students are imparted with excellent professionalism through IEEE society which carries out various professional activities. The department has produced several renowned alumni who are occupying enviable positions across the globe.

ABOUT THE WORKSHOP

The field of MEMS evolved from the integrated circuit industry. The germination of the MEMS field covers two decades when space activities were carried out. In 1990s the field of MEMS entered a period of rapid and dynamic growth worldwide. Today micro machined sensors are built with a variety of structures and fabrication methods. Silicon micro machining technology played an enabling role in the ink jet thermal printing technology. This workshop will enable the attendees to understand the important concepts of MEMS.

WHO CAN PARTICIPATE

Under Graduate Students / Post Graduate Students / Research Scholars / Faculty members of Mechanical, Electrical, Instrumentation Engineering and Industry Personnel.

ABOUT THE SPEAKER



Dr. E. Paul Braineard, Ph.D. (IIT Madras)
Assistant Professor,
Indian Institute of Information Technology, Srirangapatna, Chittoor.

Area of Expertise:

- > MEMS
- > Microfluidics
- > Micropumps

LECTURE TOPICS

1. Introduction to MEMS Devices
2. MEMS Fabrication Processes
3. Case Study on Silicon Based Micro pumps – Design, Fabrication and Testing

The department of Mechanical Engineering and The department of Electrical and Electronics Engineering jointly organized a one day workshop on **MicroElectroMechanical Systems (MEMS)** on the 12th of September 2018. Dr. E. Paul Braineard, Ph.D. (IIT Madras) Assistant Professor, Indian Institute of Information Technology, Sricity, Chittoor was invited as a guest speaker. The workshop was inaugurated by Dr. S. Rasool Mohideen, Professor and Dean (School of Mechanical Sciences) and Dr. S. Kaja Mohideen, Professor and Dean (School of Electrical and Communication Sciences).





The convener Dr. Y. Mohamed Shuaib, HOD EEE felicitated the speaker, the workshop coordinators, Mr. K. Saran Kumar, Assistant Professor, Mechanical and Mr. A. Paramasivam, Assistant Professor, EEE gave a brief over view about the workshop and a short note about the speaker.

The speaker briefed on MEMS fabrication techniques during the forenoon session and elaborated on micro pumps as a case study in the afternoon session. The workshop attracted more than 40 student participants both internal and external.