

Tentative Programme

**Day1: Venue: AMC Seminar Hall, SCTIMST
(For Medical and Engineering Delegates)**

8:30 am- Registration

8:45 am- Inauguration : Dr.M. Balaraman Nair
Felicitation : Dr.S. Sankar

9:30-10:30 am- Principles & Optics of Light
Microscopy

10:30-10:40 am- Tea break

10:40-11:40 am- Types of Microscopes and their
Medical Applications

11: 45- 1:00 pm

Demo: Brightfield, Polarizing, Fluorescence
Microscopes and Image Processing Software

1:00-2:00 pm- Lunch Break

2:00 pm- reassemble, transportation to BMT Wing
2:30- 4:30 pm

Demo: Inverted, Confocal, SEM, TEM, AFM

4:30 pm -Valedictory Function and Tea

**Day2 :Venue: Hospital Wing, SCTIMST
(For registered Engineering Delegates)**

9.00 am - 12 noon Hands on experience on
biomedical engineering aspects of Microscopes

Those who are interested in the hands on
experience on day 2, please inform us at;
microscopy2013@sctimst.ac.in, on or before
25.11.2013.



Confirmed speakers

Dr. Amit Kumar Bhattacharya MSc, PhD.

Application Scientist for the Life Science Research
Division of Leica Microsystems India

- Basics of brightfield, phase contrast, polarizing, and fluorescence microscopy.
- Basics of digital cameras, along with digital image processing and analysis.

Dr. K.N Ganesh MSc, PhD.

Applications Manager (Microscopy) at M/s. Olympus
Medical Systems India Ltd. Bangalore.

- Basics and medical applications of Inverted, Confocal.

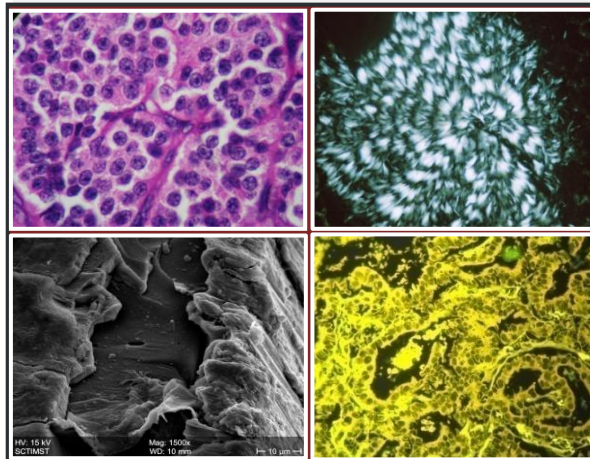
Dr. Prabha D. Nair

**(Scientist G, Polymer Analysis Laboratory, BMT
Wing, SCTIMST)- Atomic Force Microscopy**

**Dr. Annie John (Scientist F, BMT Wing,
SCTIMST) – Transmission Electron Microscopy**

**Dr. Harikrishna Verma P.R (Engineer F, BMT
Wing, SCTIMST)- Scanning Electron Microscopy**

**Dr. Anil Kumar P.R (Scientist C, BMT Wing,
SCTIMST)- Inverted and Confocal microscopy**



Workshop on Microscopy



Basic to Advanced Microscopy in Medical Sciences

20th and 21st December 2013

**Hospital Equipment Awareness Training Series
(HEATS-2013)**

Organized by:

Department of Pathology

Department of Clinical Engineering
Biomedical Technology Wing

Sree Chitra Tirunal Institute for
Medical Sciences & Technology

Thiruvananthapuram, Kerala

"Despite all the advances in molecular biology and other disciplines, the basic diagnosis is still based in the overwhelming majority of the cases on what we see under the microscope"

Prof. Juan Rosai

No doubt microscope is the key equipment in a Pathology department. That is why we thought it would be worthwhile to spend some time learning the inside of a microscope which we are so used to handling everyday.

SCTIMST proudly welcomes all participants to a two days' workshop on microscopy.

There will be an exhaustive talk on the light microscope, optics behind it, lighting systems, how to choose a microscope that best suits our work etc. In the second part, we move on to the other types of microscopes we may come across like polarizer, inverted, and fluorescence microscopes. We also briefly touch upon advanced microscopes such as confocal, SEM, TEM and atomic force microscopes.

Afternoon hours will be spent on directly seeing, learning and understanding the applications of these microscopes.

The second day will be exclusively for the registered engineering participants who will be given a hands-on demonstration of the technical aspects of the microscopes.

The resource persons for the workshop are experts in the field of microscopy from Leica, Olympus and SCTIMST.

We once again welcome you to attend and experience the world of microscopes.

Kindly note: Registration will be limited to the first twenty participants, with preference given to postgraduates in Pathology, besides the M. Tech students of SCTIMST.

Dr. S. Sandhyamani
Organizing Chairperson

ORGANIZING COMMITTEE

Patrons:

Dr J M Tharakan,
(Director, SCTIMST)
Dr. R Sankar Kumar,
(Medical Superintendent, SCTIMST)
Dr. C.P Sharma
(Head, BMT Wing, SCTIMST)

Organizing Chairperson:

Dr. S. Sandhyamani

Organizing Secretary:

Dr. R. Amita

Jt Organizing Secretary cum Treasurer:

Dr. Santhosh Kumar. B

Scientific committee:

Mr. Koruthu. P Varghese
(Engineer G, SCTIMST)
Dr. Prabha D. Nair
(Scientist G, Polymer Analysis Laboratory, BMT Wing)
Dr. Annie John
(Scientist F, TEM, BMT Wing, SCTIMST)
Dr. Harikrishna Verma P.R
(Engineer F BMT Wing, SCTIMST)
Dr. Niranjana D. Khambete
Scientist F, BMT Wing, SCTIMST'
Dr. Anil Kumar P.R
(Scientist C, BMT Wing, SCTIMST)

For Details, Contact:

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Workshop on Microscopy ,
Department of Pathology, SCTIMST
Thiruvananthapuram-695 011, Kerala.
Ph: 0471- 2524605, 2524594
Email: ssm@setimst.ac.in

Registration Format

(Kindly take photocopy, if necessary)

Name:

Designation:

Official Address:

Mob:

Email:

Details of Payment:

(Kindly write your name on the reverse side of DD)

DD No.

Bank

Dated:

Registration Fee: Rs 750/-

Demand draft to be taken in favour of
"The Director, SCTIMST" payable at
Trivandrum.

Send with the completed form to:
Dr. S. Sandhyamani
Organizing Chairperson,
Workshop on Microscopy,
Department of Pathology, SCTIMST,
Thiruvananthapuram, Kerala 695011.