"The microscope with its accessories is by far the least understood, the most inefficiently operated, and the most abused of all laboratory instruments"…

*Charles P Shillaber*

… and we are going to change that.

*Biooptics*

**Principles of Transmitted Light and Fluorescence Microscopy**

5-8 May & 12-15May, 2014

Biooptics team announces 2 courses, which will cover the principles of transmitted light and fluorescence microscopy:

I . 5-8 May, 2014 - Principles of Transmitted Light Microscopy This will cover the following topics:

Transmitted light microscope anatomy, Köhler illumination, Magnification, Diffraction, Optical resolution, phase contrast, differential interference contrast, dark-field, polarized light microscopy.

II. 12-15 May, 2014 - Principles of Fluorescence Microscopy This will cover the following topics:

Introduction to fluorescence, anatomy of fluorescence microscope, optical sectioning (confocal, 2-photon microscopy, total internal reflection microscopy, structured illumination), digital imaging, do´s & don'ts in fluorescence imaging

Demonstrations and hands-on sessions will bring the theory to praxis.

The course is aimed to provide you with an understanding of fundamental concepts in light microscopy, and **will last every day from 9-17.00** - **with exception of last days in both weeks which will last till 12:00.**

**We encourage everybody whose work includes microscopy to apply until April, 13th 2014 by answering to: microscopy@imp.ac.at**

**Please state which course you would like to attend – Course I, Course II or both.**

Participants are expected to attend all lectures, so we will ask you to confirm the agreement of your PI once you have been admitted.

BioOptics Facility

We Make It Possible