

# Come and have a look through the microscope!

On Saturday 13 October 2018, from 10 am to 5 pm:  
large microscopy demonstration on the occasion of  
85 years Royal Antwerp Society for Micrography.

Young and old are expected in the bio lab on the third floor of building 'O' on the campus Drie Eiken of the University of Antwerp,  
Fort VI street 226-262, in Wilrijk, Antwerp.

If you are traveling by car, park on parking 2 and follow the direction indicators.  
Public transport? Then choose bus 17, stop 'Wilrijk UA Campus (105576)'

Overview of what you can expect:

## Program of the microscopy demonstration day

### **Looking inside the earthworm**

We study the anatomy of the earthworm with the aid of paraffin embedding and via colored sections (wafer-thin cross-sections) at different locations of the worm.

### **Insects in 3D!**

Worms, grasshoppers, beetles, flies, wasps ... We watch them alive through the stereomicroscope. On a screen we discover different parts of these insects.

### **The wonderful structure of plants**

With the aid of thin sections we learn about the structure of plants.  
Coloring helps to better recognize different tissues.

### **Life in a drop of water**

With a stereomicroscope you can discover details of small water insects and water fleas.  
What's on their menu? Compound and reverse microscopes bring their food to light!

### **A closer look at small biotopes**

Discover how much life can be found on a very small piece of nature. Join us on a study without any preparation!

### **Wood gives away its secrets**

The wonderful world of woody crops. No tree is alike. This is how we view the anatomical structure of softwood and hardwood, Coniferae and Dicotyledonae.

### **Chips and electronics under the loupe**

Transistors are everywhere. A thousand billion billion will be produced this year! Under the microscope we see pixels, memory cells, processors and RFID tags in library books.

### **How to automate an ordinary light microscope?**

With some skill you can automate the focus of an ordinary light microscope so that, among other things, 'stacking' (making image sequences for more depth of field) goes much faster.

## **The wonderful world of optics and photomicrography**

Microscopic research and photography can be done with various techniques such as bright field, dark field, phase contrast, polarization, differential interference contrast, fluorescence ...

## **Looking and discovering!**

These microscopes and stereomicroscopes contain preparations that you can examine yourself. What you can see is briefly explained on a note next to each microscope.

## **From a toy microscope to a scientific research instrument**

Interest in microscopy starts at a young age with a simple microscope and evolves years later into a true hobby with (semi)-professional material.

## **Microscopes for young and old**

Interested in microscopy? Microscopes come in all sizes and price ranges. Here are some examples (Euromex models).

## **Which microscopes did our members use 85 years ago?**

Arrangement of microscopes used in different periods.

## **Continuous projection of micrographs**

and at 11, 14 and 16 hrs. a brief presentation of the activities and history of the Royal Antwerp Micrographical Society