

Tuesday, 17th September 2019: 7.30pm

Stacking / Stitching. by Mike Asquith. We start this new programme season with a chance to explore the potential of stacking and stitching images from your microscope. This method is used to generate images with greater depth of field and/or image coverage impossible to get by any other means. We will use software available free to all.

Tuesday, 1st October 2019: 7.30pm

Spiders. This is a good time of the year to collect wild spiders from the garden and examine them under the microscope. It will be the first time we have looked at this fascinating group of creatures at an evening meeting.

Tuesday, 15th October 2019: 7.30pm

Microscope Servicing, Trouble Shooting and Alignment by Mike Asquith and Mike Gibson. Tips for optimising the performance of your microscope and making it do things you never knew it could. Important: bring your own microscope if you possibly can. Perfect meeting to bring a microscope you bought / inherited etc and find out exactly what it can do when properly serviced.

Tuesday, 5th November 2019: 7.30pm

Fungal Plant Diseases and Pests by Mike Gibson and Mike Asquith. An opportunity to look at the autumn crop of rusts, smuts and mildews commonly found on both on the surface of the leaves and inside the plant tissue.

Tuesday, 19th November 2019: 7.30pm

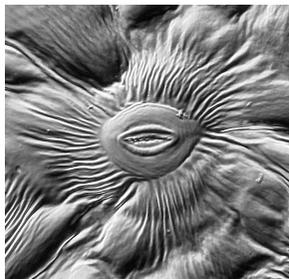
Application of the Microscope to Non - Biological Subjects. by Mike Asquith. The microscope is also used by non-biologists, e.g. geologists, metallurgists, the electronics industry and coin collectors among others. (How many times does the date appear on a £1 coin?) Bring your own examples of inanimate items to look at under your or our microscopes.

Tuesday, 3rd December 2019: 7.30pm

Food Deterioration by Mike Asquith. What happens after the 'Use By' date seen on many fresh foods? Explore the world of nasties in 'gone-off' food. You will never ignore the "Use By" date again!

Tuesday, 17th December 2019: 7.30pm

Pre - Xmas picture show. A 'bring & show' session to round off the year (accompanied by Christmas goodies). A light hearted session in which members can show their own favourite micrographs, slides, gadgets or anything microscopy related.



Tuesday, 7th January 2020: 7.30pm

Standing on Shoulders of Giants Part I. By Mike Gibson. Santiago Ramón y Cajal: Spanish Nobel Laureate who did much of the pioneering work on the structure of the nervous system. See his work and compare them with our own nerve and brain preparations.

Tuesday, 21st January 2020: 7.30pm

Oil Immersion by Mike Asquith. An evening using oil immersion lenses and comparing their performance with air lenses. We can supply microscopes, lens and immersion oil for use on the evening.

Tuesday, 4th February 2020: 7.30pm

Standing on Shoulders of Giants Part II by Mike Asquith. Katherine Esau: From Ukrainian immigrant to one of the great plant anatomists of the 20th Century. Compare her results with our own preparations.

Tuesday, 18th February 2020: 7.30pm

Mounting Insect Body Parts

–by Graham Warne and Tim Newton. Graham and Tim will show us how to dissect out and mount insect body parts. This is a delicate and intricate skill that was particularly popular in the Victorian era. Amazing examples of prepared slides from the society's collection will be shown in all their gruesome splendour.



Tuesday, 3rd March 2020: 7.30pm

Structure of Wood Part I, Uses of Nail Varnish Replica

on Wood. By Mike Asquith. We've used this technique of painting the subject with clear nail varnish successfully on leaves, now let's try it on other subjects, e.g. studying the structure of wood.

Tuesday, 17th March 2020: 7.30pm

Structure of Wood Part II by Mike Gibson. Ernie Ives' wood slides. Ernie Ives (1934–2014) was a regular lecturer at our Microscopy Exhibition. He was world famous, amongst other interests, for his wood microtomy and for the production of high quality wood section slides. We will have a number of his original slides available to study on the night.



Tuesday, 7th April 2020: 7.30pm

Pollen. The collection, mounting and identification of pollens. Pollen grains are unique to each plant, and can be identified under the microscope. We should consider how we might make this into a body of information available to local apiarists.

Tuesday, 21st April 2020: 7.30pm

Time lapse films By Mike Asquith and Stan Hitchcock. We look at what is involved in making a time lapse movie through the microscope and explore different methods, and subjects that may be suitable.

Tuesday, 5th May 2020: 7.30pm

The amoeba (Part I): an ideal subject for movie and time

lapse. By Mike Gibson. *Amoeba Proteus*, an opportunity to study the structure & function of a classic microscopic example of a live single-cell organism. Samples will be available from a bought culture and it will be a good opportunity to use your microscope in both bright field and dark ground modes as well as phase contrast on our DMR. Please also note that during this session we would

encourage participants to bring along their cameras to take both still and moving images for later showing in session 2.

Tuesday, 19th May 2020: 7.30pm

The amoeba (Part II) –by Mike Gibson. A chance to look at our movie creations from the previous session. With an opportunity to discuss the successful and not quite as successful!

Tuesday, 2nd June 2020: 7.30pm

Pond Life Part I, Algae. by Mike Gibson. Algae are very common in all bodies of water (streams, ponds, bird baths etc). They vary greatly in their form and habits. We will explore what species are visible under the microscope. Please bring a sample of pond water, sludge etc. to explore.

Tuesday, 16th June 2020: 7.30pm

Pond Life Part II, Rotifers and Insect Larvae by Mike Gibson and Graham Warne. Pond life is extremely varied, incorporating Rotifers and insect larvae among its extensive occupants. We will try and identify some of the commoner species and enjoy watching the rest under the microscope.

Sunday, 28th June 2020: 10.00am - 4.00pm

The Annual Exhibition of Microscopy. Including sales, exhibits, talks and Photo competition. This is an opportunity to meet with fellow microscopists and enthusiasts from around the country and also to see what's on offer in the way of sales items. Why not bring along an exhibit of your own? Sales and exhibits in the morning and lectures in the afternoon. Please contact Mike Gibson on stmarysmrg@yahoo.com for further information

Tuesday, 7th July 2020: 7.30pm

Nematodes – by Mike Gibson. During this session we will look at various examples of nematodes from a variety of sources including soil samples and pond water. Nematodes

Tuesday, 21st July 2020: 7.30pm

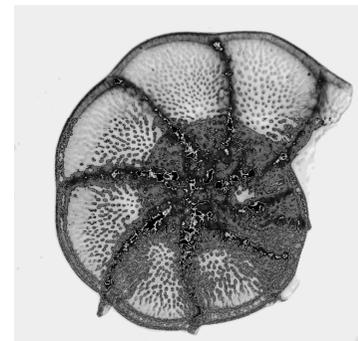
Sand – by Mike Gibson. Another look at sands from the Richardson collection. The Richardson Sand collection is an extensive collection with samples of sand from hundreds of sites, showing the great variety of sands influenced by the local geology and local environment of the site.

Tuesday, 4th August 2020: No Meeting.

Tuesday, 18th August 2020: 7.30pm

Forams by Mike Gibson.

This week we have a second look at the Crick micro-fossil collection featuring Forams. Forams are single-celled organisms that typically live in the ocean and produce a mineralized test (shell). Foram tests (external shells) are generally composed of secreted calcium carbonate and can be found in sediments and rocks.



No microscope, don't worry, use one of our microscopes at our meetings.