



# SEM Workshop

Tuesday, the 16<sup>th</sup> of April 2019

and

Wednesday, the 17<sup>th</sup> of April 2019\*

**Cost: £65**

\*This is a one-day course. The content will be repeated on the second day.

\*\* Can't make it? Keep checking our website – we will have additional dates confirmed soon for summer & fall 2019.



The workshops are intended to provide the new generation of SEM users (including PhD students and postdocs, technical and experimental officers, and EM facility managers) with the introduction to SEM and related analytical techniques, such as energy dispersive X-ray spectroscopy. Lectures and practical sessions will take place in the JEOL UK headquarter, which is located in Welwyn Garden City, and which houses state-of-the-art thermionic and field emission instruments. Topics will range from sample preparation and carrying out basic imaging to elemental analysis and troubleshooting common SEM problems.

## Agenda

10:00 Welcome & Introductions

10:30 Presentation – SEM basics

*Types of electron sources, manipulating electron beam, interactions between electrons and matter, emission of secondary signals, electrons and X-ray detection*

11:15 Coffee break

11:30 Presentation – Applications Troubleshooting

*Common problems with SEM imaging and how to resolve them*

13:00 Lunch

*Buffet lunch will be provided*

13:45 Practical session

Hands on time with SEM with organised activities

16:00 Q&A and close

## Application

Application can be submitted using the following link:

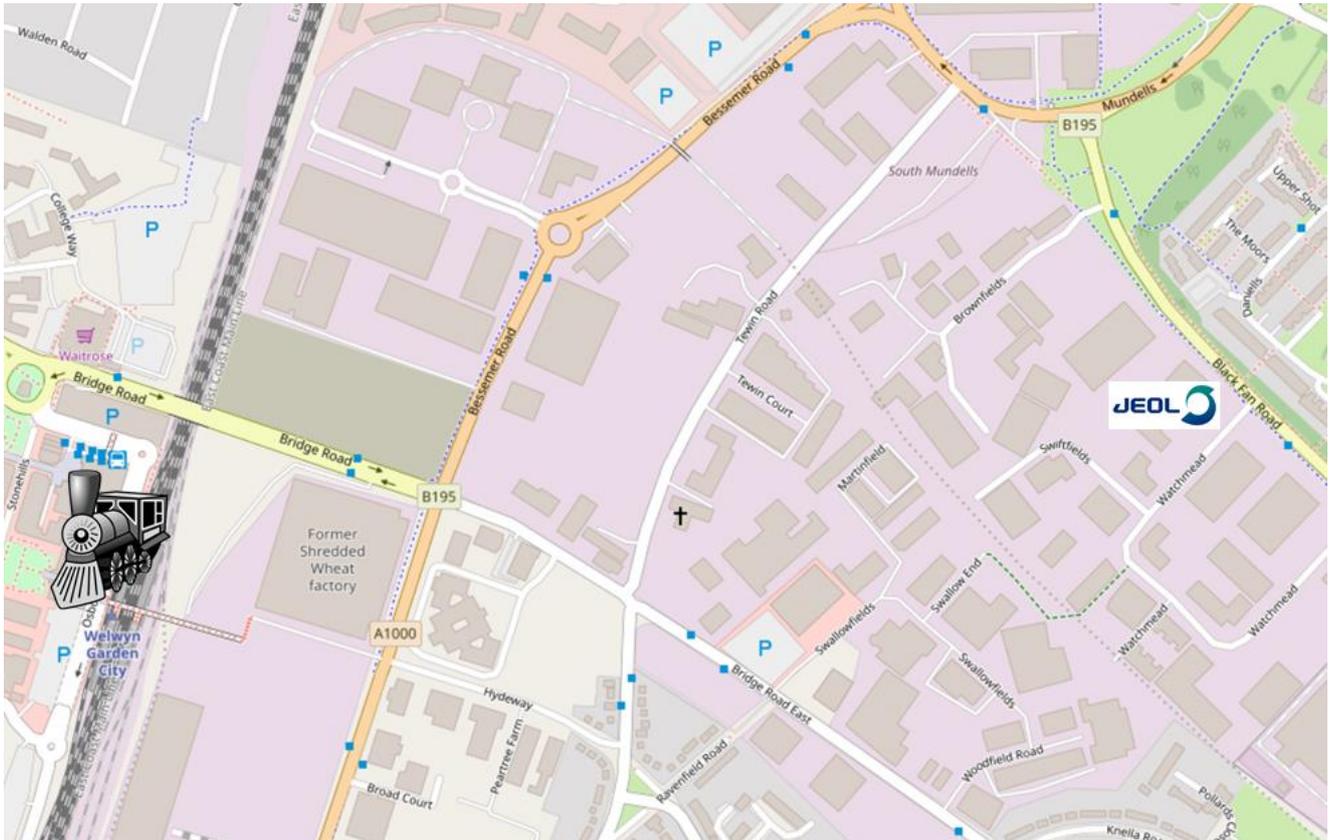
<http://www.microscopy-workshops.info/>

Successful applicants will be invited to register, the registration fee is £65.

The deadline for submitting your application is Friday, the 22<sup>nd</sup> of March 2019.

# Directions

Our address is as follows: **JEOL House, Silvercourt, Watchmead, Welwyn Garden City, Herts, AL7 1LT**



## TRAVELING BY CAR

Vast majority of satellite navigation systems recognise our address correctly. If you plan to take A1(M), we recommend leaving at junction 4 towards A414 (Hertford), and then approaching Welwyn Garden City from the B195 direction. **Visitor car park will be provided at no extra cost.**

## BY RAIL

Welwyn Garden City Railway Station is located ca. 1.5 miles away from the JEOL's office. It takes ca. 30 minutes to walk this distance. Taxi rank is located outside the Railway Station building.

The station is served by direct trains from London King's Cross (travel time ca. 30 min), and Stevenage (12 min). We recommend that customers travelling from the North (on the East Coast Main Line) who wish to avoid London make a change in Stevenage.

## BY AIR

The nearest airport is London Luton. If relying on public transport, take bus no. 366 (direction: South Hatfield) from the Luton Airport Parkway Bus Station to Tewin Road. The typical travel time is 50 min and the Tewin Road bus stop is located ca. 10 min away from the JEOL's office (on foot).

If you require additional information please contact us at [enquiries@microscopy-workshops.info](mailto:enquiries@microscopy-workshops.info).