



Electron Microscopy

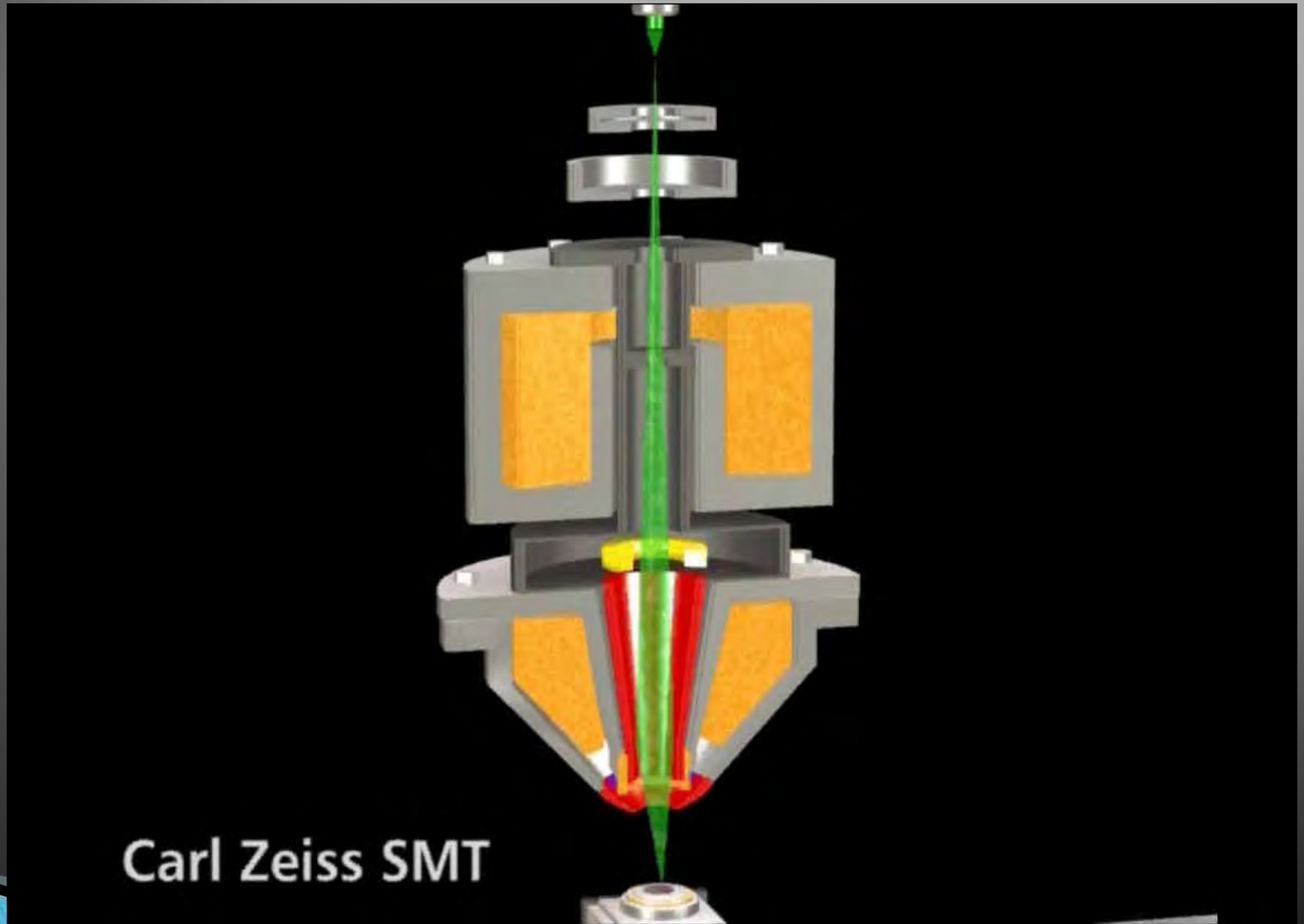


Electron Microscope Suite

Carl Zeiss
SIGMA VP
FEG-SEM

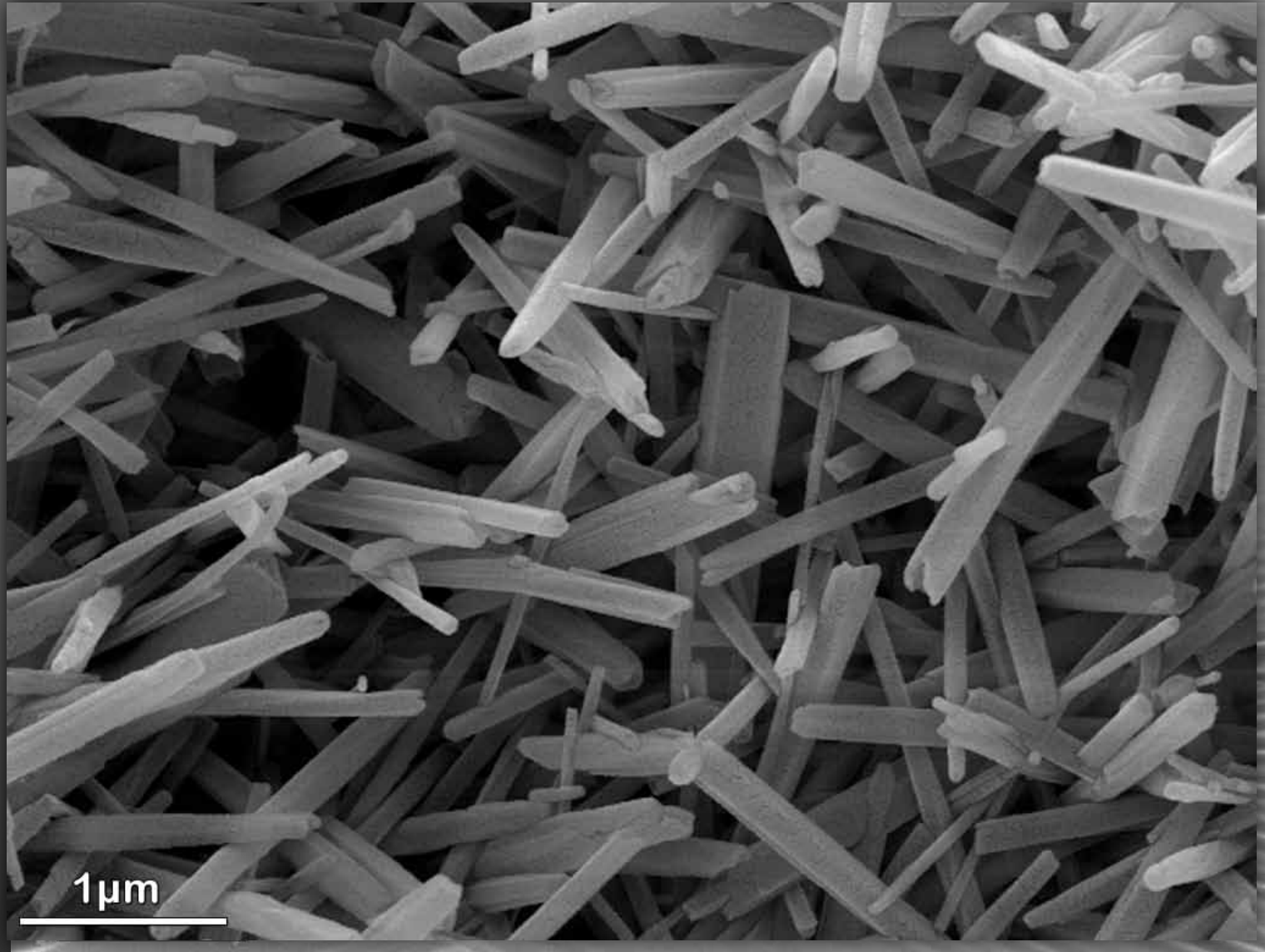


Field Emission Gun



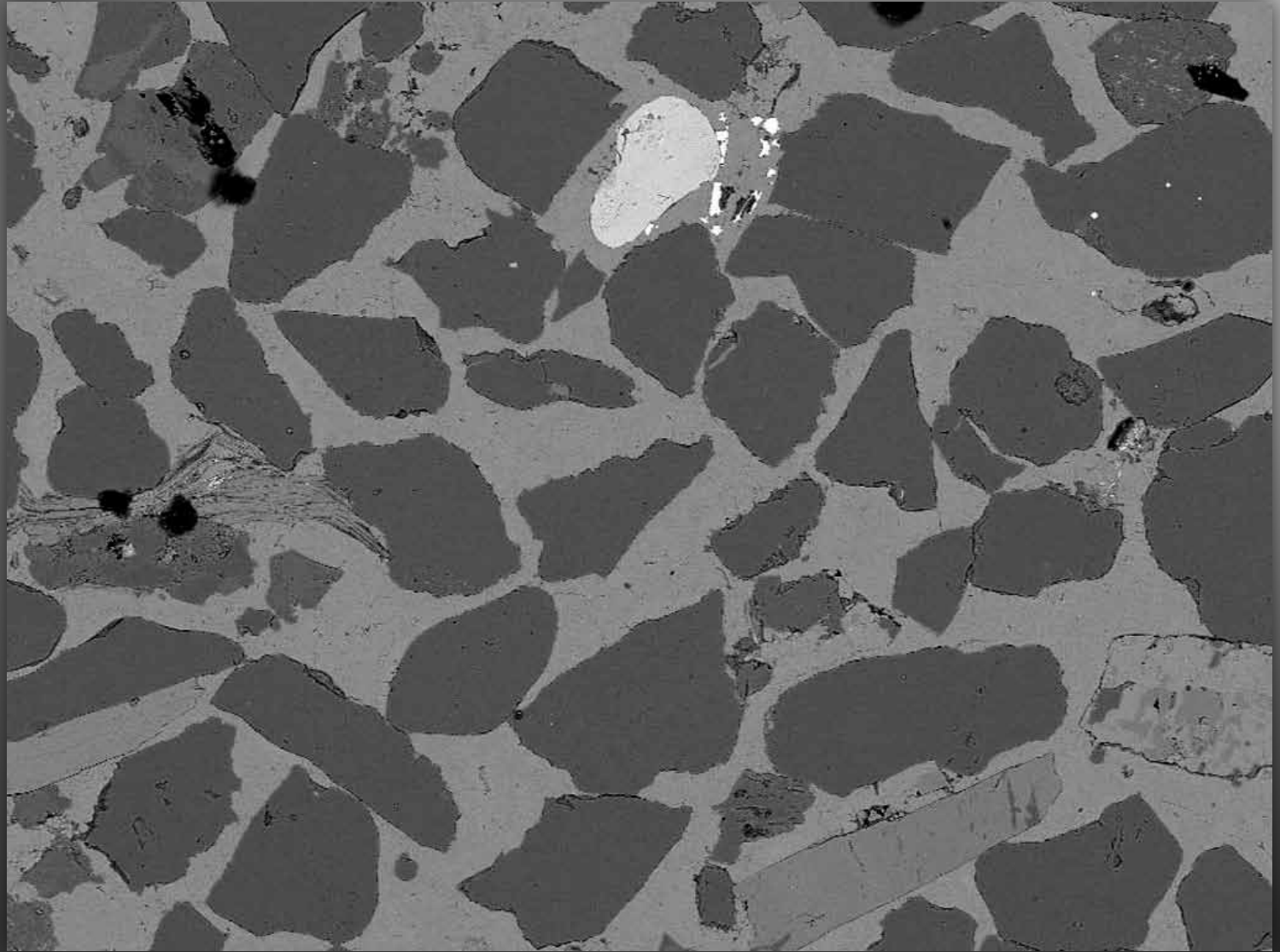
Secondary Electron Images

SE



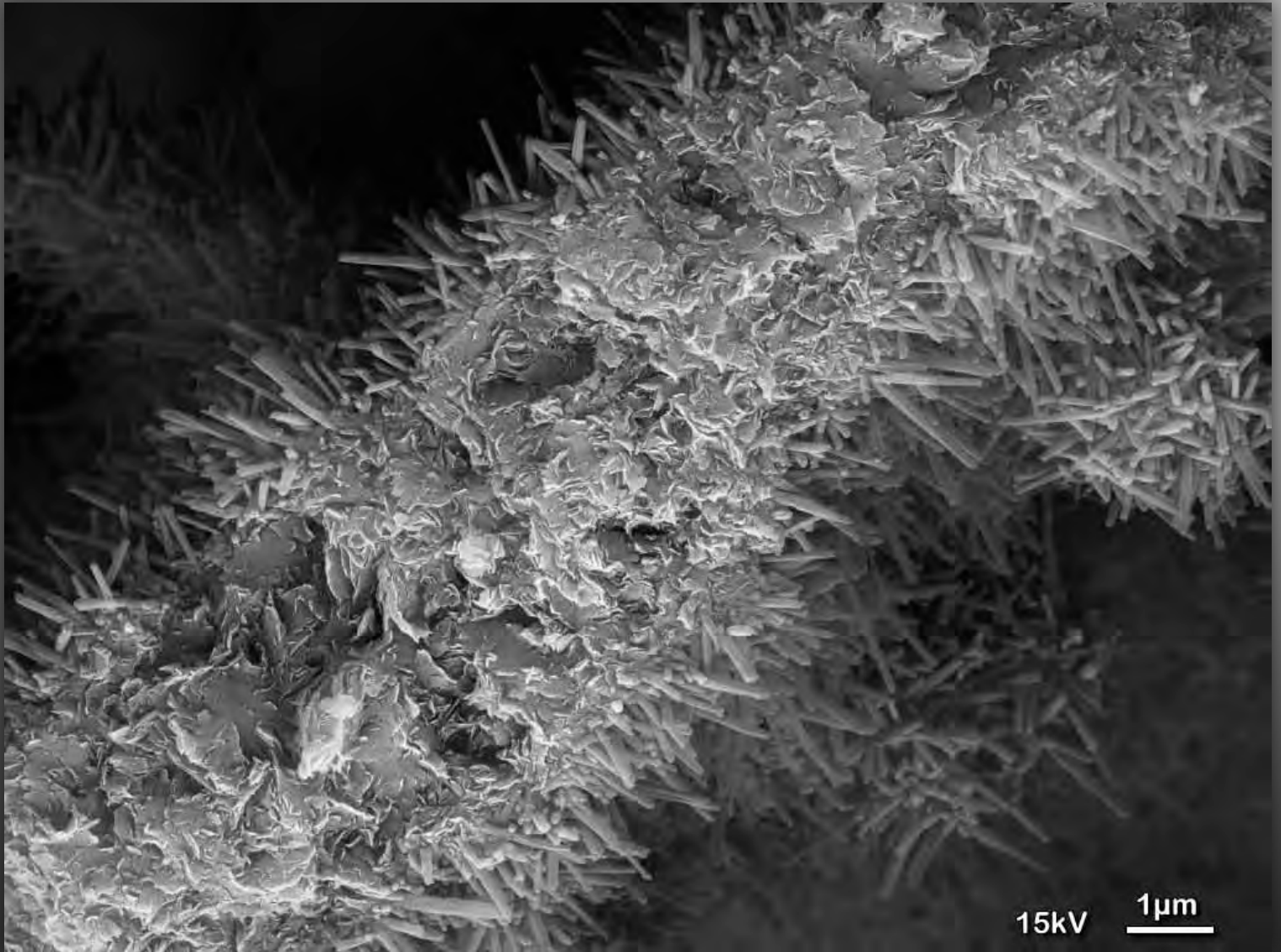
Backscattered Electron images

BSE



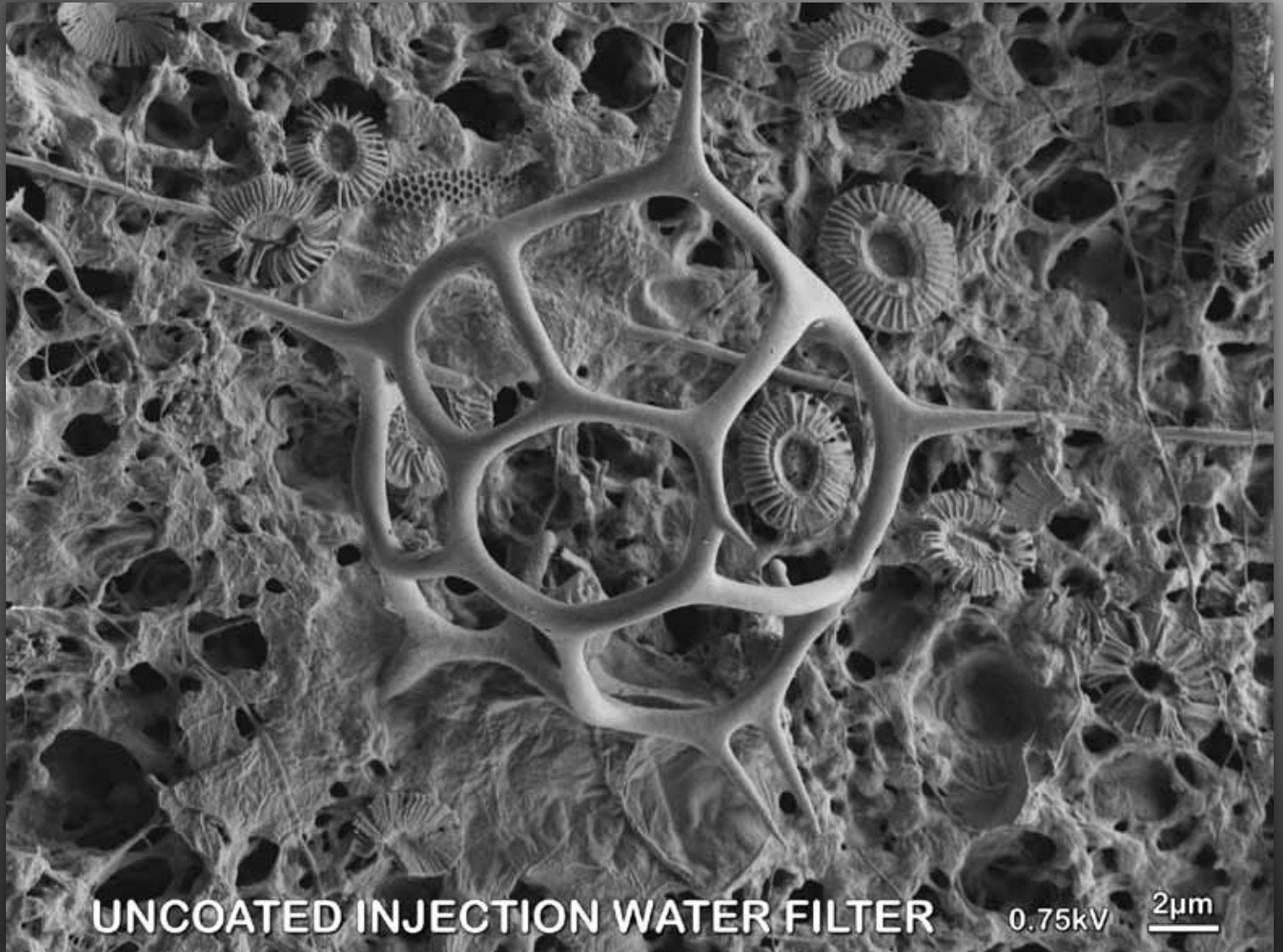
High Acceleration Voltage

15kV



Low Acceleration Voltage

0.75kV



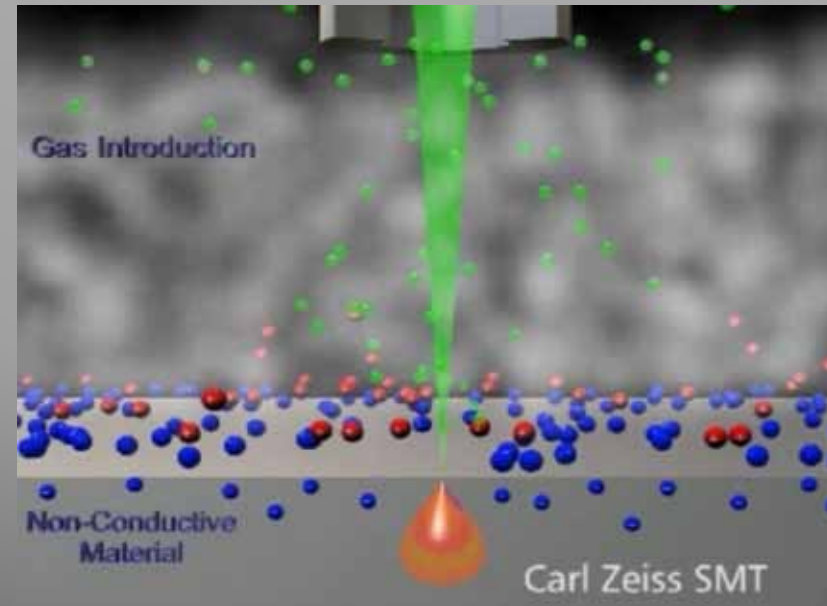
UNCOATED INJECTION WATER FILTER

0.75kV

2µm

Variable Pressure

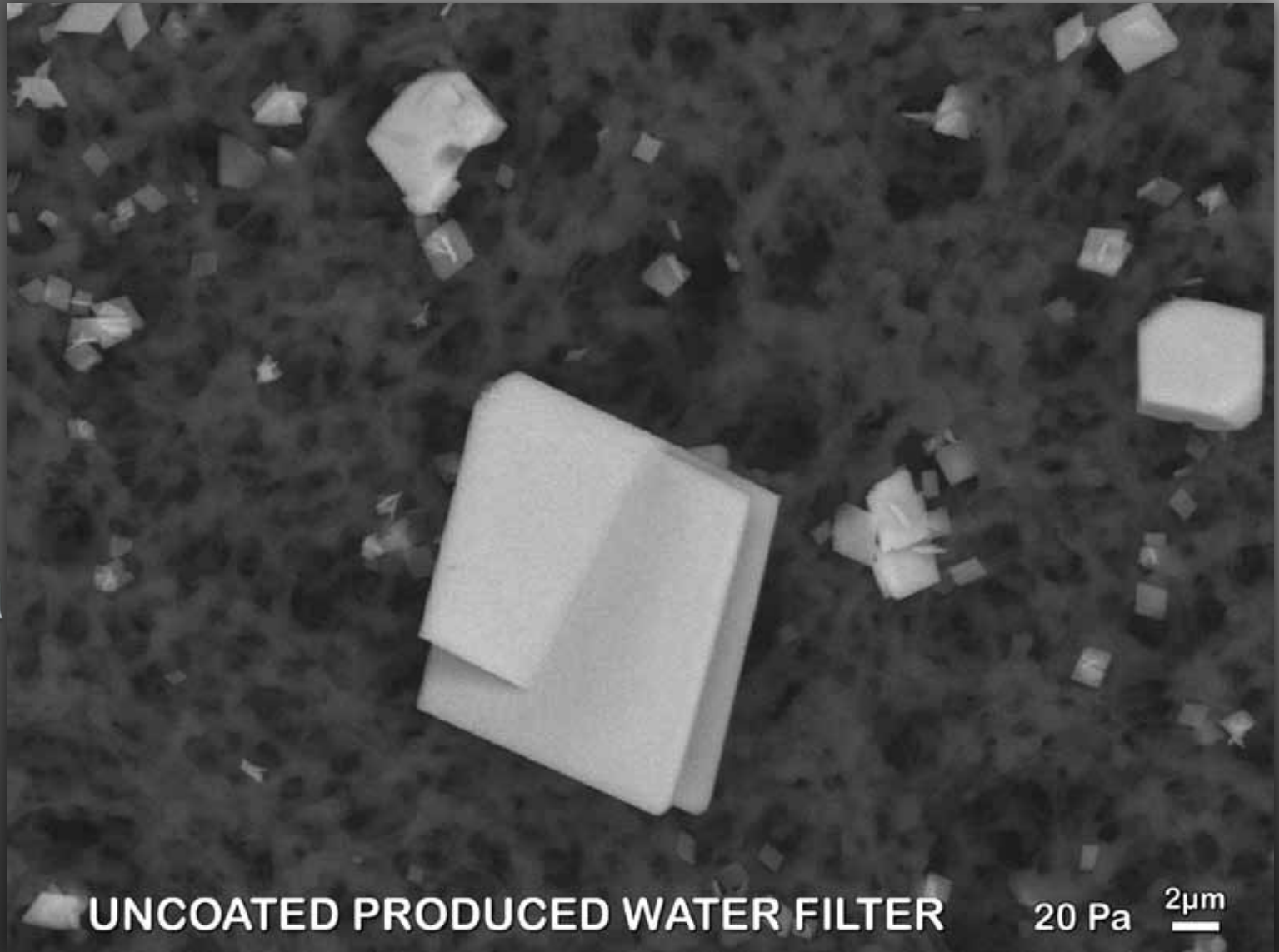
non-conductive
material



charge neutralised

Variable Pressure

VP
up to
130Pa



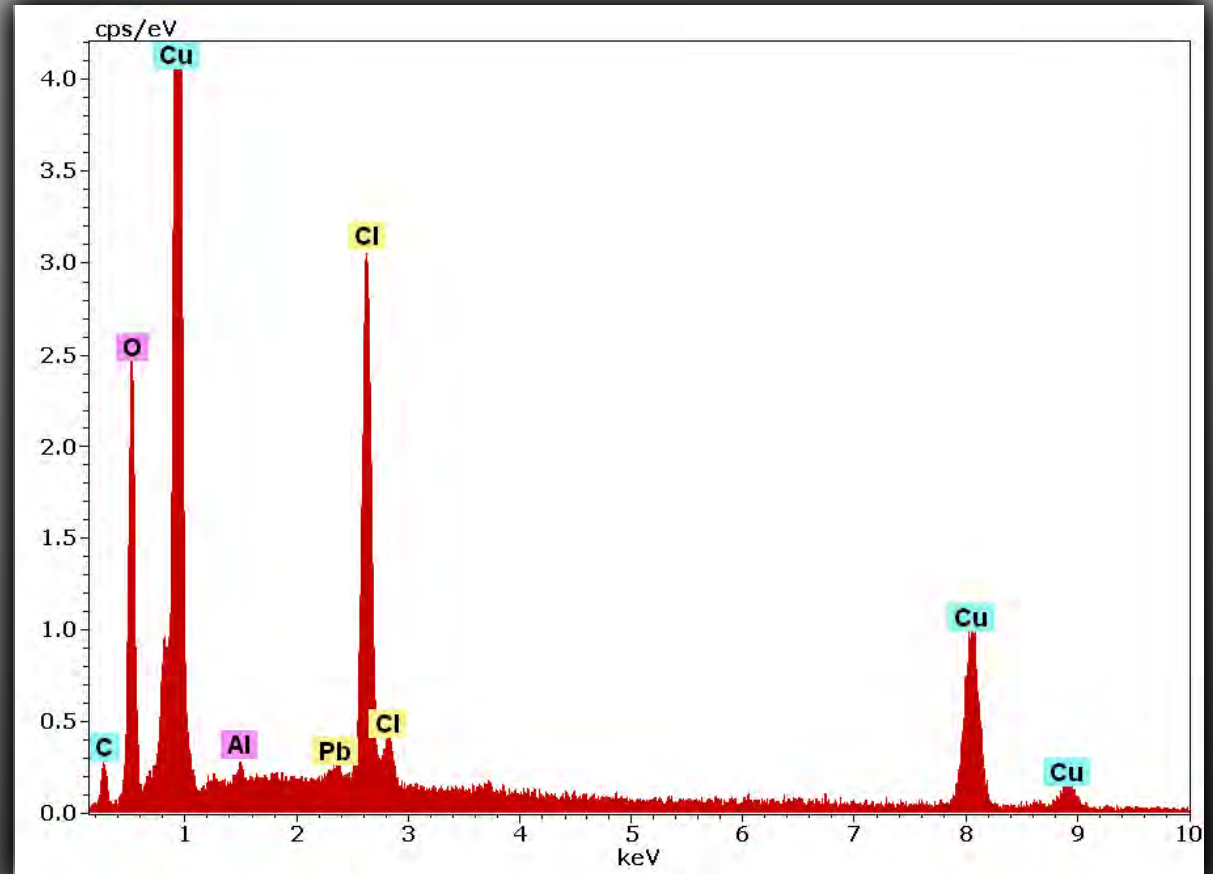
Energy Dispersive X-ray analysis

Bruker
Quantax-400
Spectrometer
with
Xflash 5030
detector



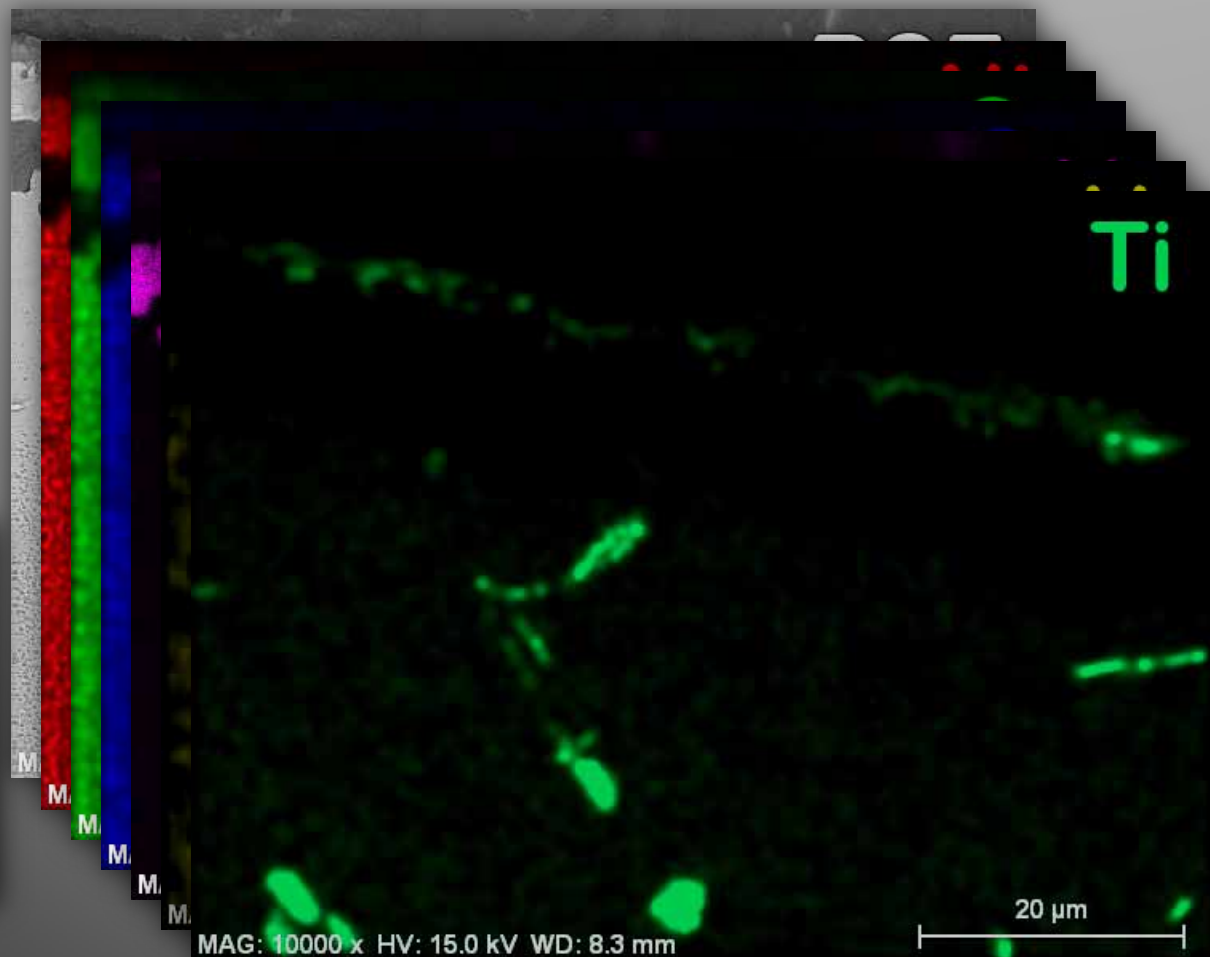
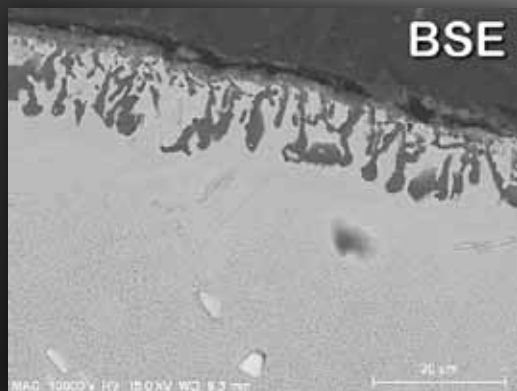
Energy Dispersive X-ray analysis

Elemental analysis



Energy Dispersive X-ray analysis

Element maps



Cryogenic SEM

Quorum
Technologies
PP2000T
cryotransfer
unit



Cryogenic SEM

Analysis
of wet
samples

