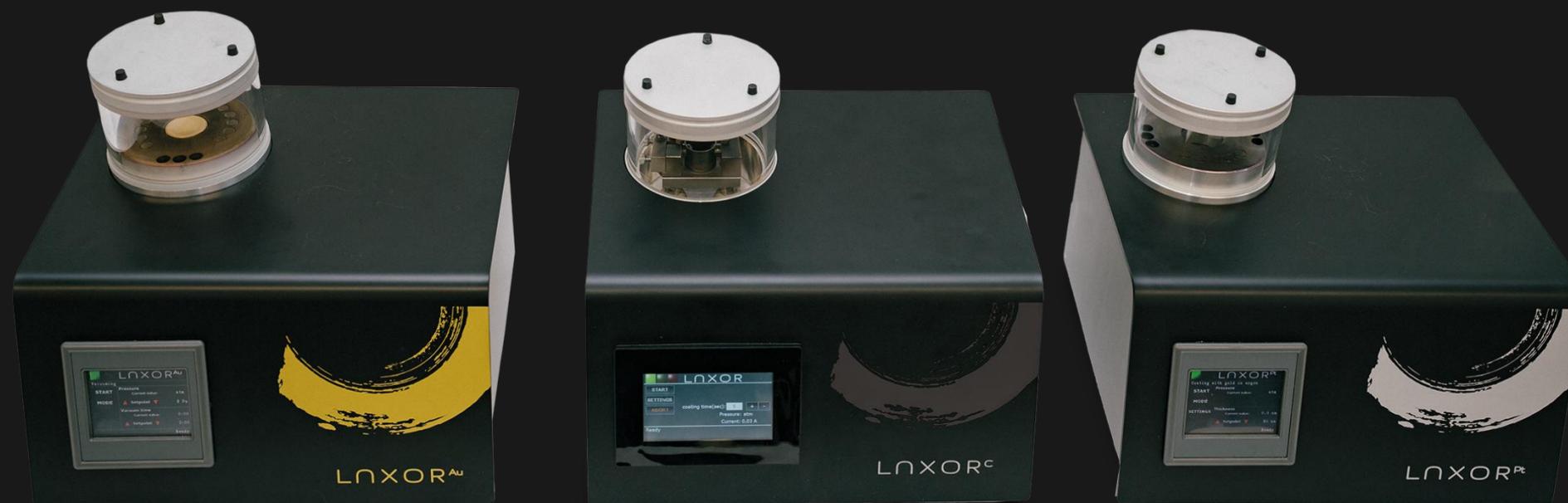




LUXOR sputter & carbon coaters product introduction



Numbers

Since Luxor's founding in 2020

40+
Countries

3
Models

500+
Units

Introduction

LUXOR

At LUXOR, we engineer and manufacture sample preparation tools for SEM, with focus on carbon and sputter coating.

www.luxor-tech.com



LUXOR is a brand of Aptco Technologies, a manufacturer of measurement instruments and testing equipment.

www.aptco-technologies.com

APTCO TECHNOLOGIES



LUXOR

Our mission

At LUXOR, we believe that coating
can be done differently.

With **smart technology** and **innovative design**.

That is why we develop a series of **smart** and
innovative, fully automated coaters for
EM sample preparation.

Our mission is to make EM coating **smart** and **easy**.
For every user.

LUXOR

Product Range

LUXOR^{Au}



LUXOR^C



LUXOR^{Pt}



LUXOR^{Au}

The LUXOR^{Au} is typically used for SEM imaging applications up to 50.000x magnification.

- Au coating in air or argon
- Typical coating thickness 5 to 10 nm for SEM applications
- Average coating time: 5 minutes



LUXOR^C

The carbon coater is primarily used for EDS (elemental analysis).

- Utilizes a Bradley-type carbon rod evaporation source in air
- Typical coating thickness 15 to 25 nm for SEM applications
- Average coating time: 4 minutes



LUXOR^{Pt}



The LUXOR^{Pt} is typically used for high resolution (FEG)SEM imaging applications from 50.000 x magnification upwards

- Pt coating in argon
- Typical coating thickness, 2 to 5 nm for SEM applications
- Average coating time: 5 minutes
- Au coating is also possible with LUXOR^{Pt}

LUXOR

Features & Benefits

1- Fully automated operation

Select the coating time and press start — the entire coating process is then fully automated.



User benefits

- Easy to use
- Faster process & higher productivity
- Repeatable coatings
- User independent
- Minimal training required

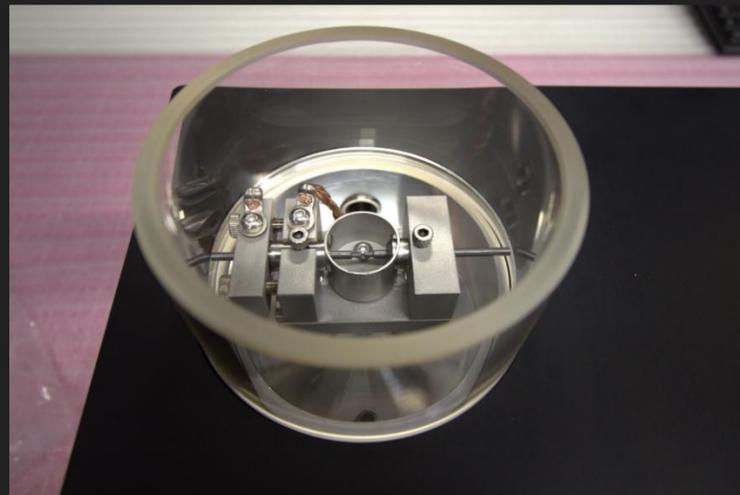
2- Upside down design

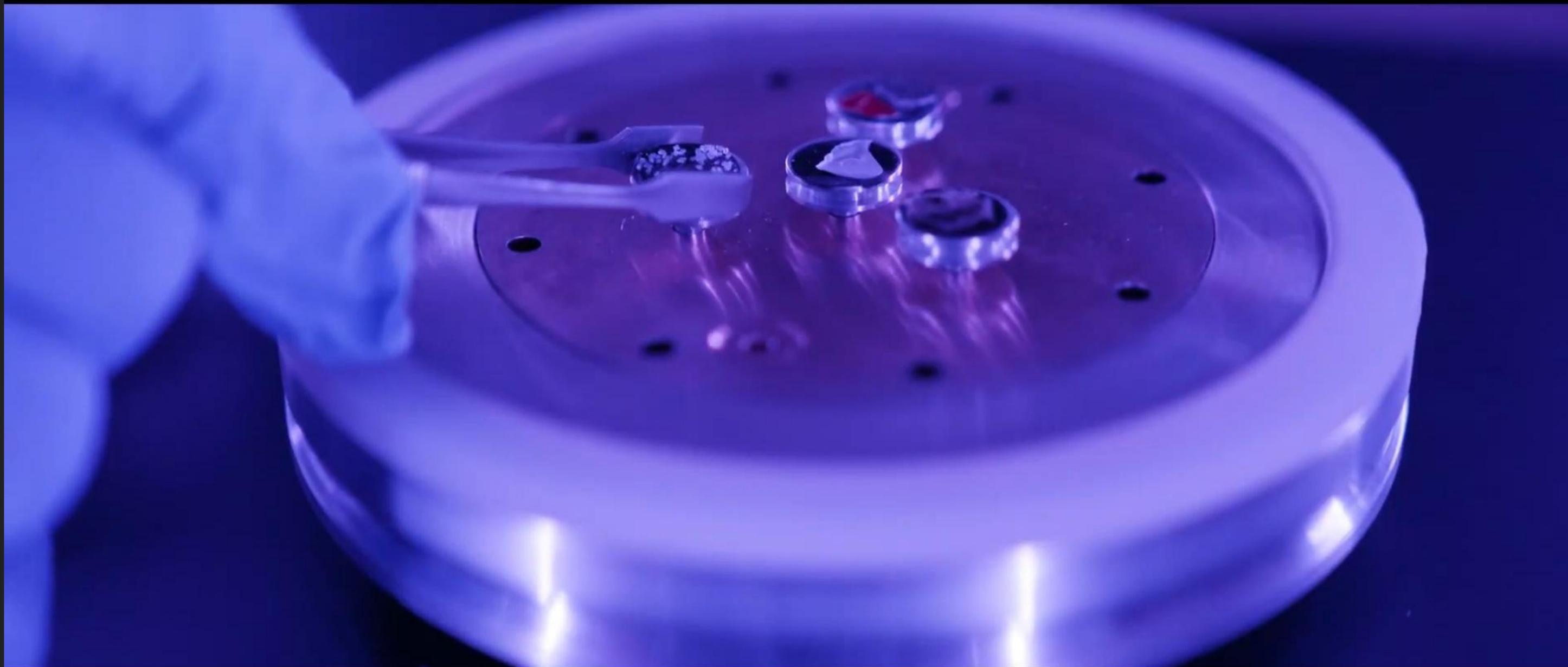
LUXOR



User benefits

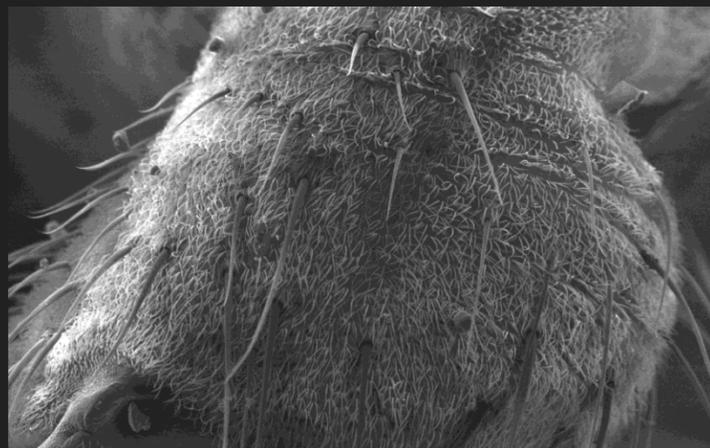
- Maximum safety for users – high-voltage wires are completely hidden and secured.
- This design also removes loose particles during coating, keeping your SEM column well protected.
- Designed for effortless operation and maximum flexibility.





3- 3D coating

You can coat 3 dimensional structures without the need of a TMP or a rotating/ tilting/ planetary stage.



USP

User benefits

- Avoid sample charging
- Protect beam sensitive samples
- Improve edge resolution



4- Smart & innovative technology

LUXOR

USP

No TMP, no tilting/ rotating/ planetary stages, no thickness monitoring module



User benefits

- Quick and straightforward sample handling
- Lower cost of ownership
- Ease of use
- Less downtime

Luxor's plug & play pre-mounted targets and sample holder



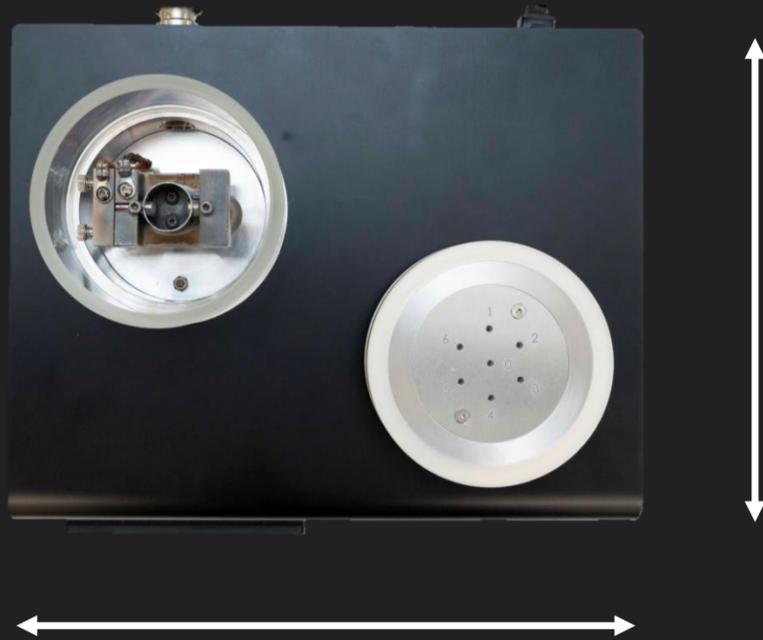


5- Compact & stand-alone units

LAXOR



Optimized for lab space



340 x 340 x 290 mm (W x D x H*)

*200 mm height without chamber

User benefits

- More flexibility in lab environment
- Carbon contamination-free operation for sputter coaters
- No need to switch between heads & methods for different coatings
- Time-saving



6- Triple functionality

LUXOR

The LUXOR coater is more than a coater



User benefits

- High vacuum level mode to outgas samples
- Time-based sample drying mode for drying sensitive (biological) samples



Fully automated operation



Smart and innovative technology

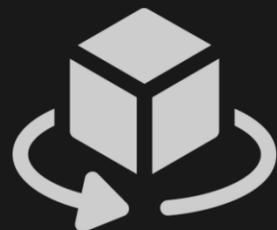


Upside down design

LNXOR Technology



Compact and stand-alone units



3D Coating



Triple functionality

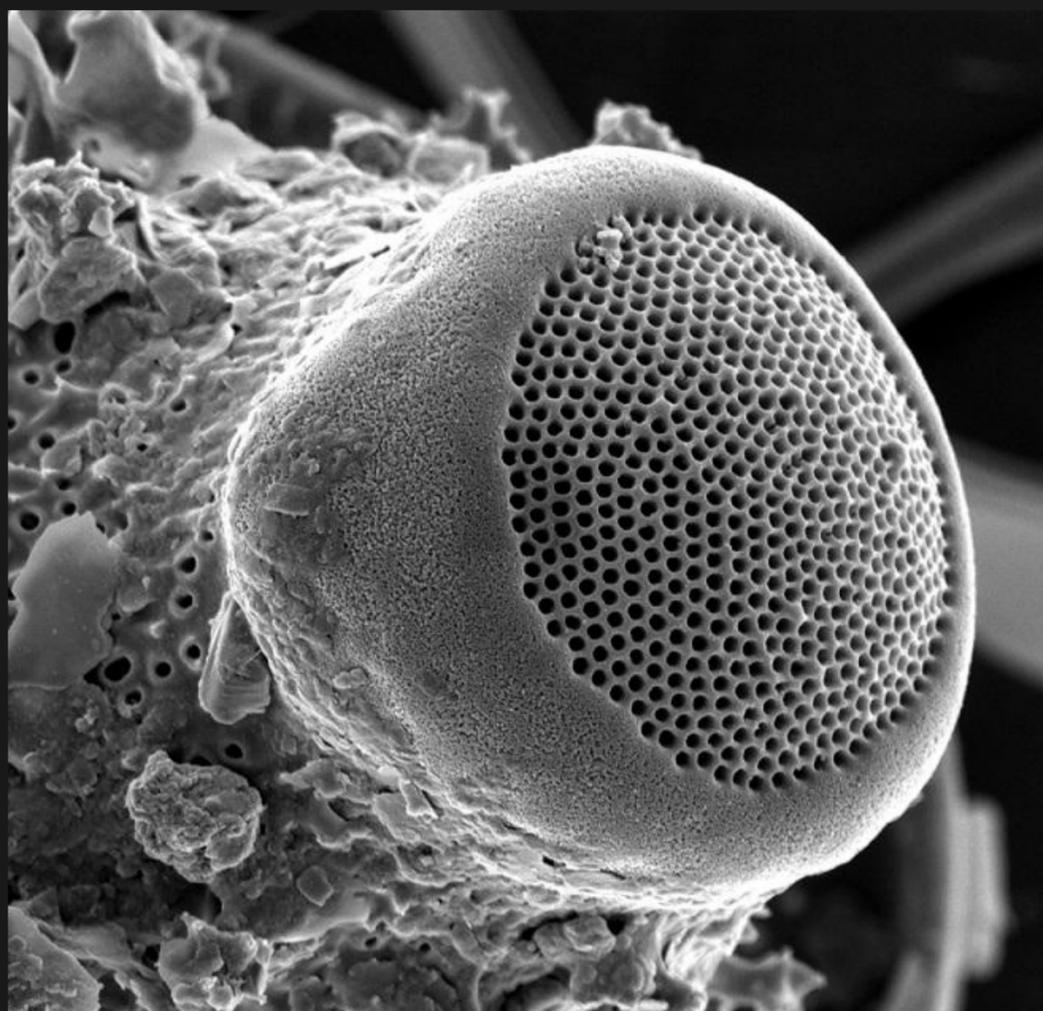
LUXOR

LUXOR

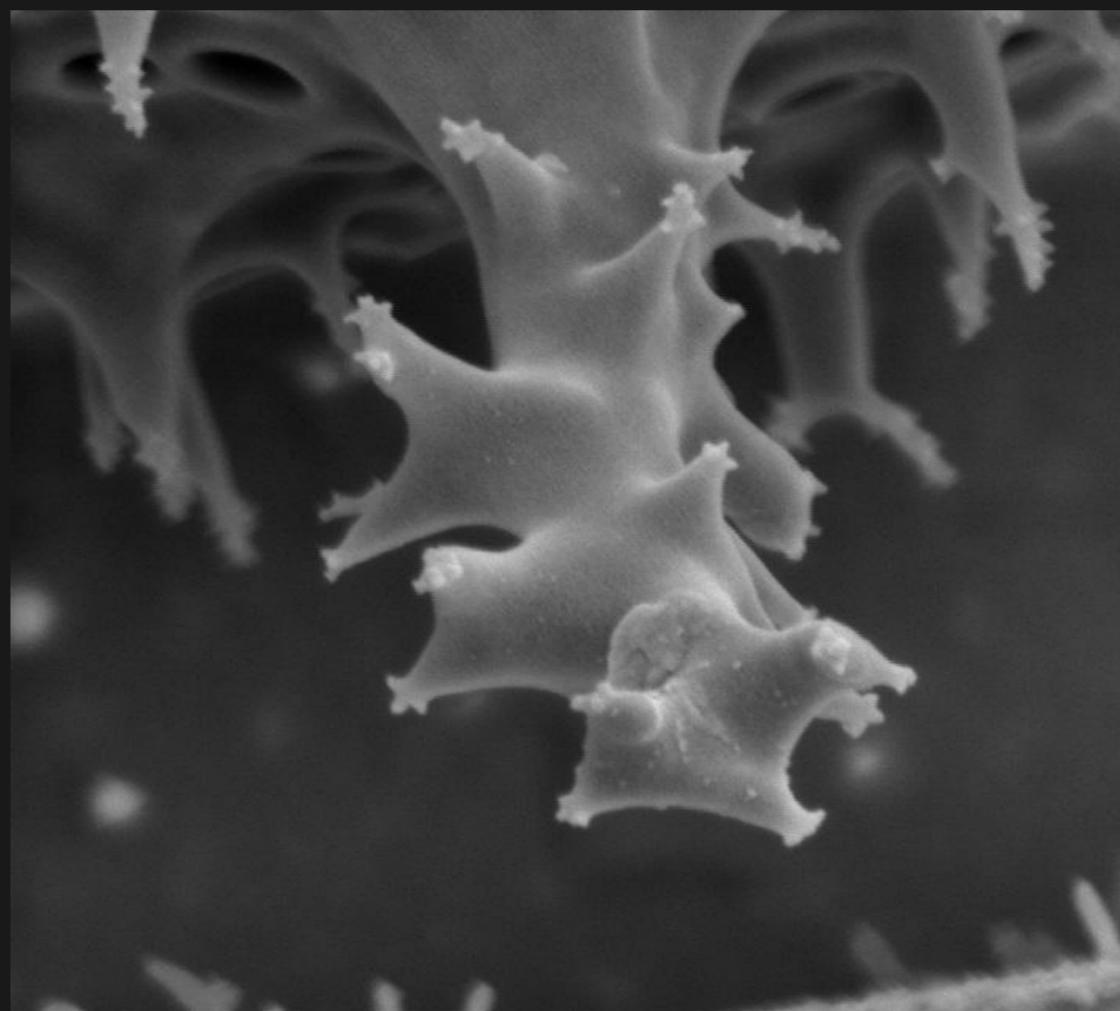
In action

Example images

Foraminifera and Coccolithophores - 2 nm platinum coating
 (note the superb image resolution at the right image – coated "crosses" and surface topography)

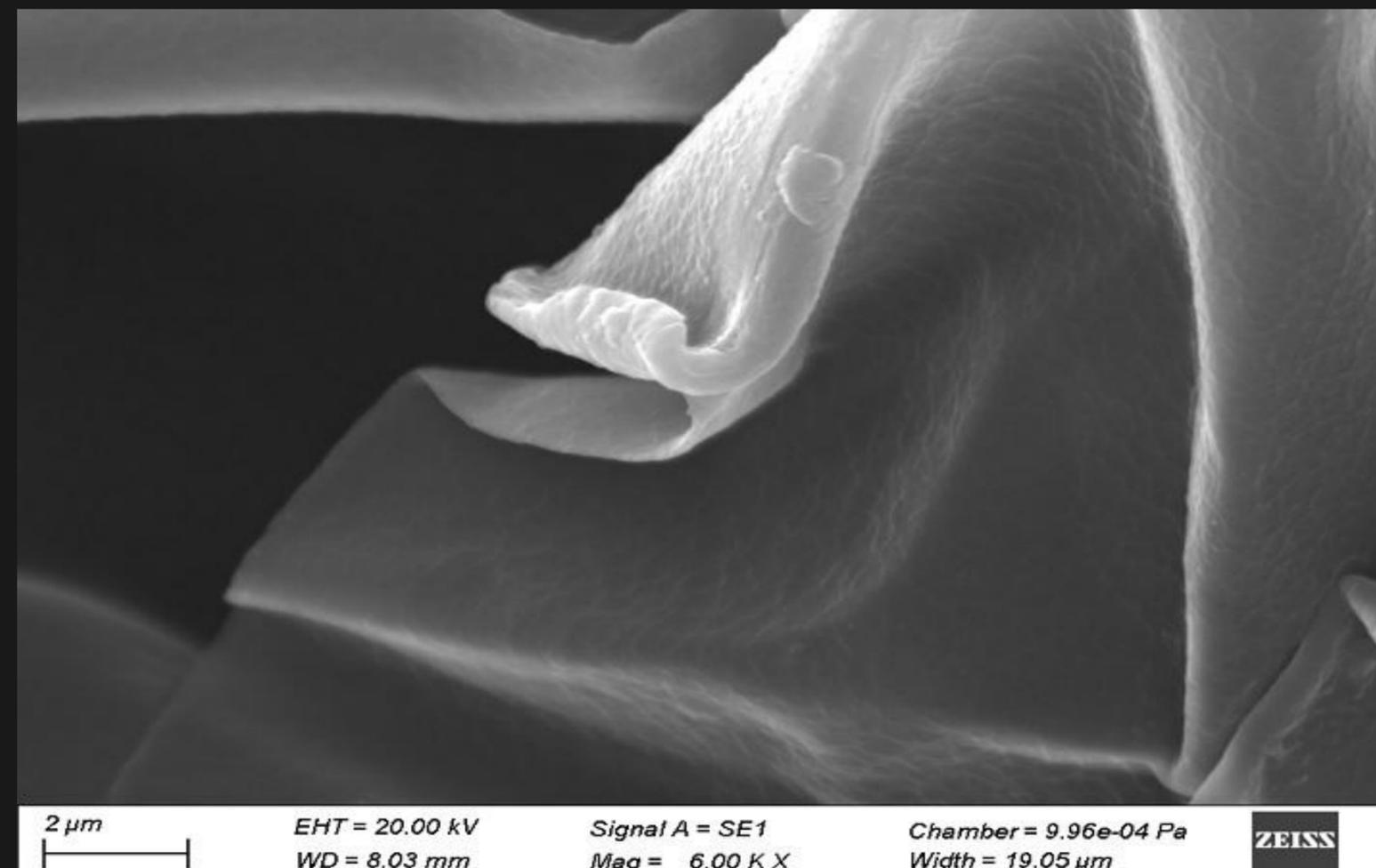
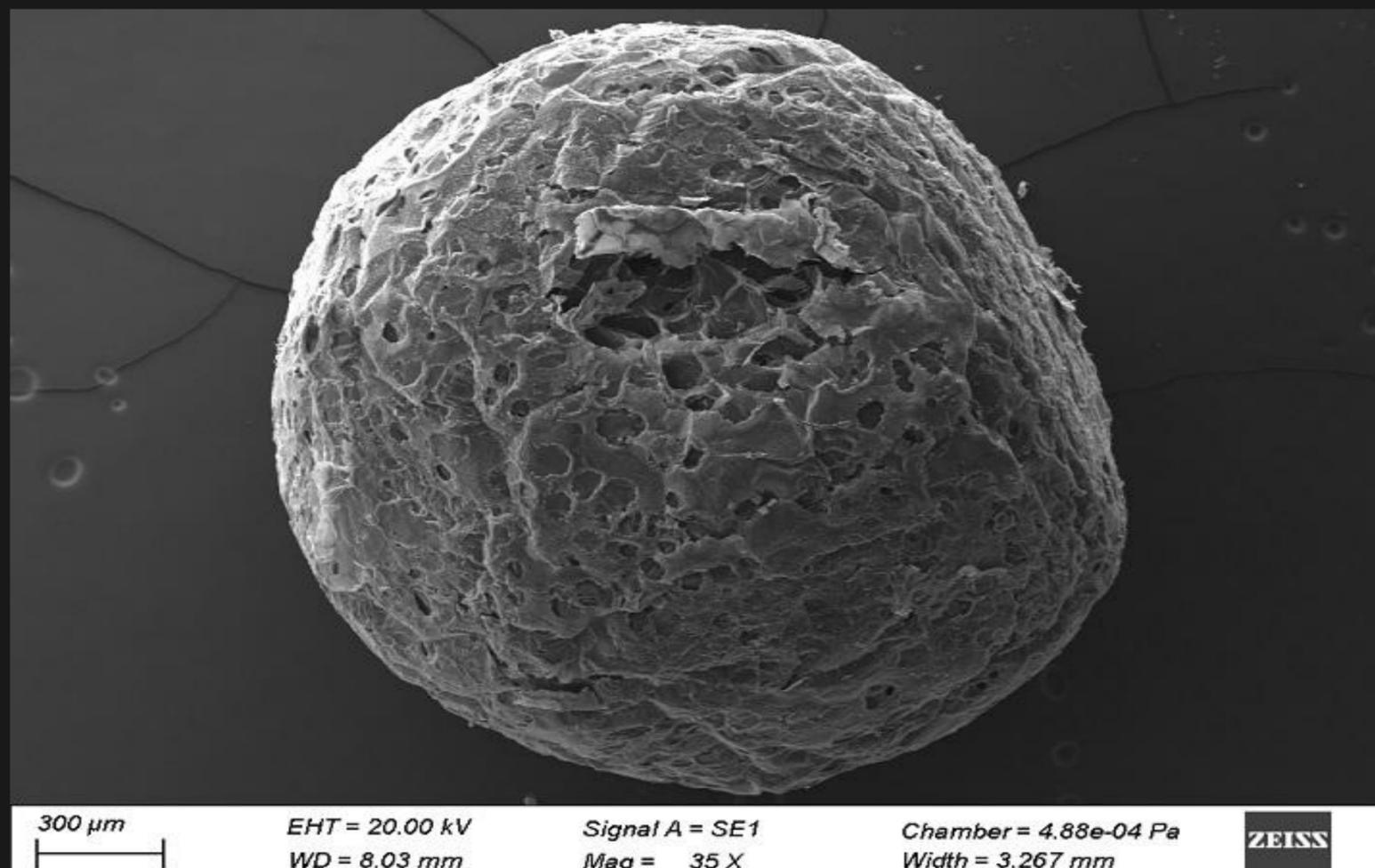


	Mag 38.5 kx	FoV 7.24 μ m	WD 1.04 mm	2 μ m
BC 32 pA	Det MD	Scan Mode UH-RESOLUTION	Energy 2 keV	

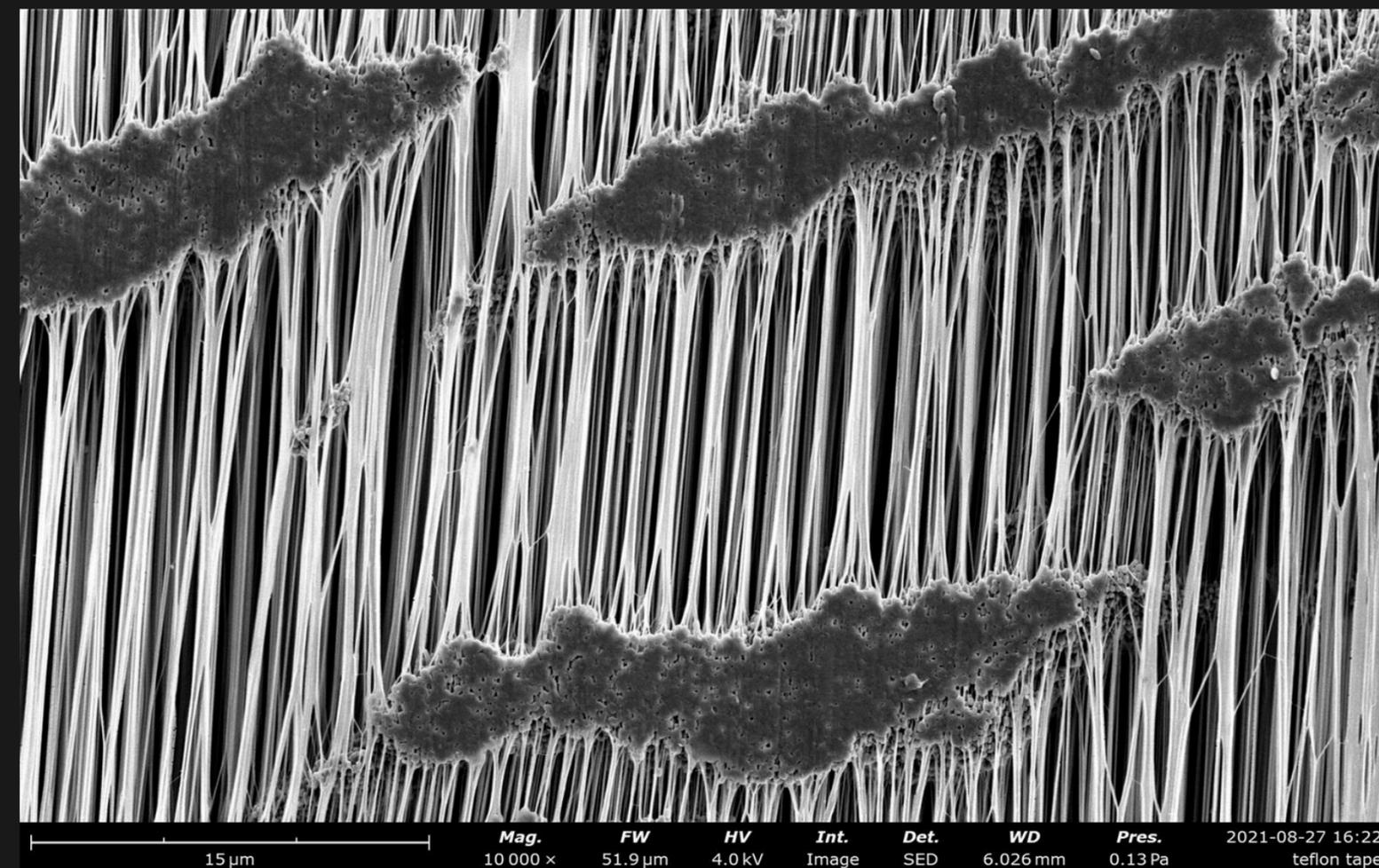
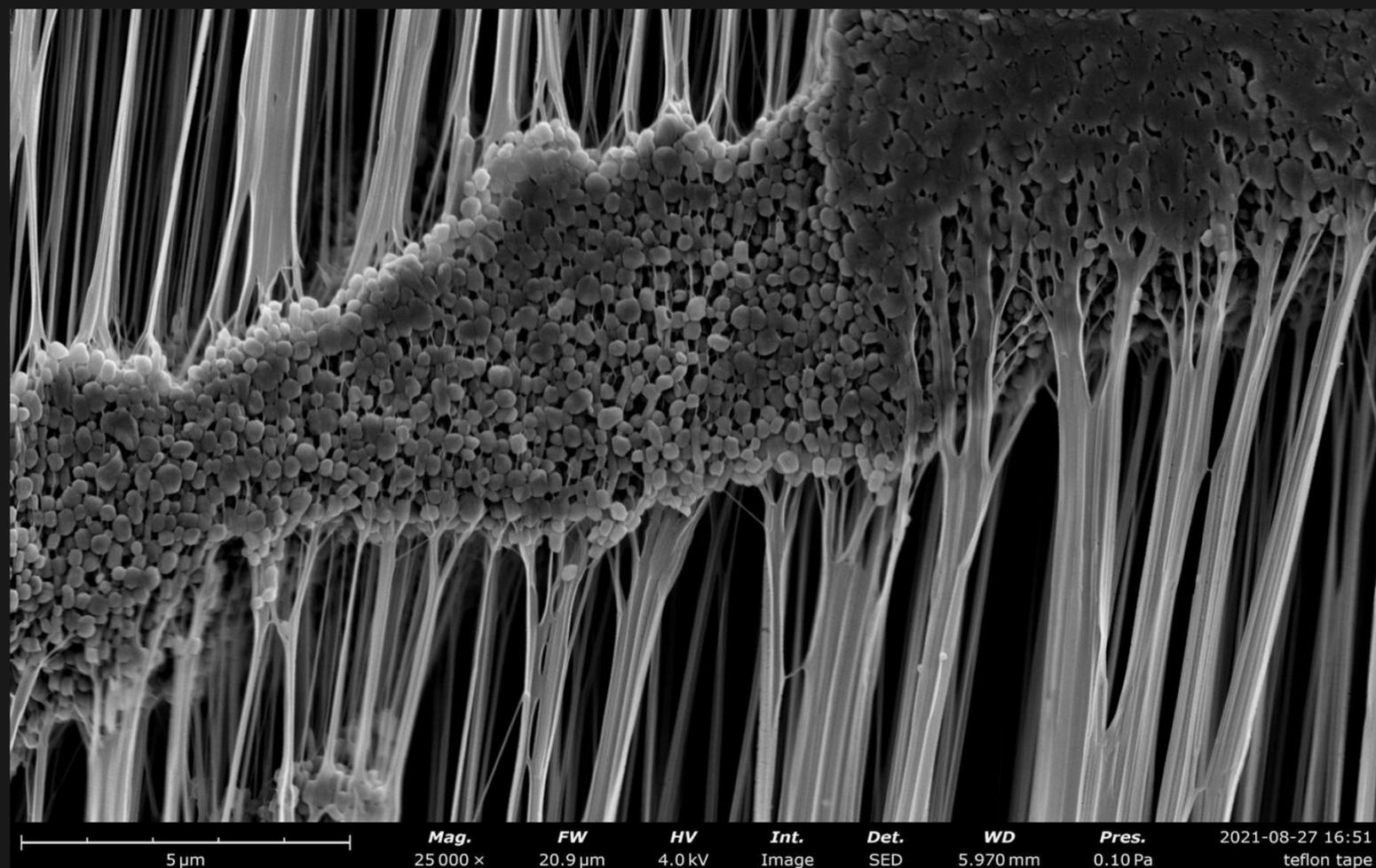


	Mag 153 kx	FoV 1.82 μ m	WD 1.04 mm	500 nm
BC 32 pA	Det Axial	Scan Mode UH-RESOLUTION	Energy 2 keV	

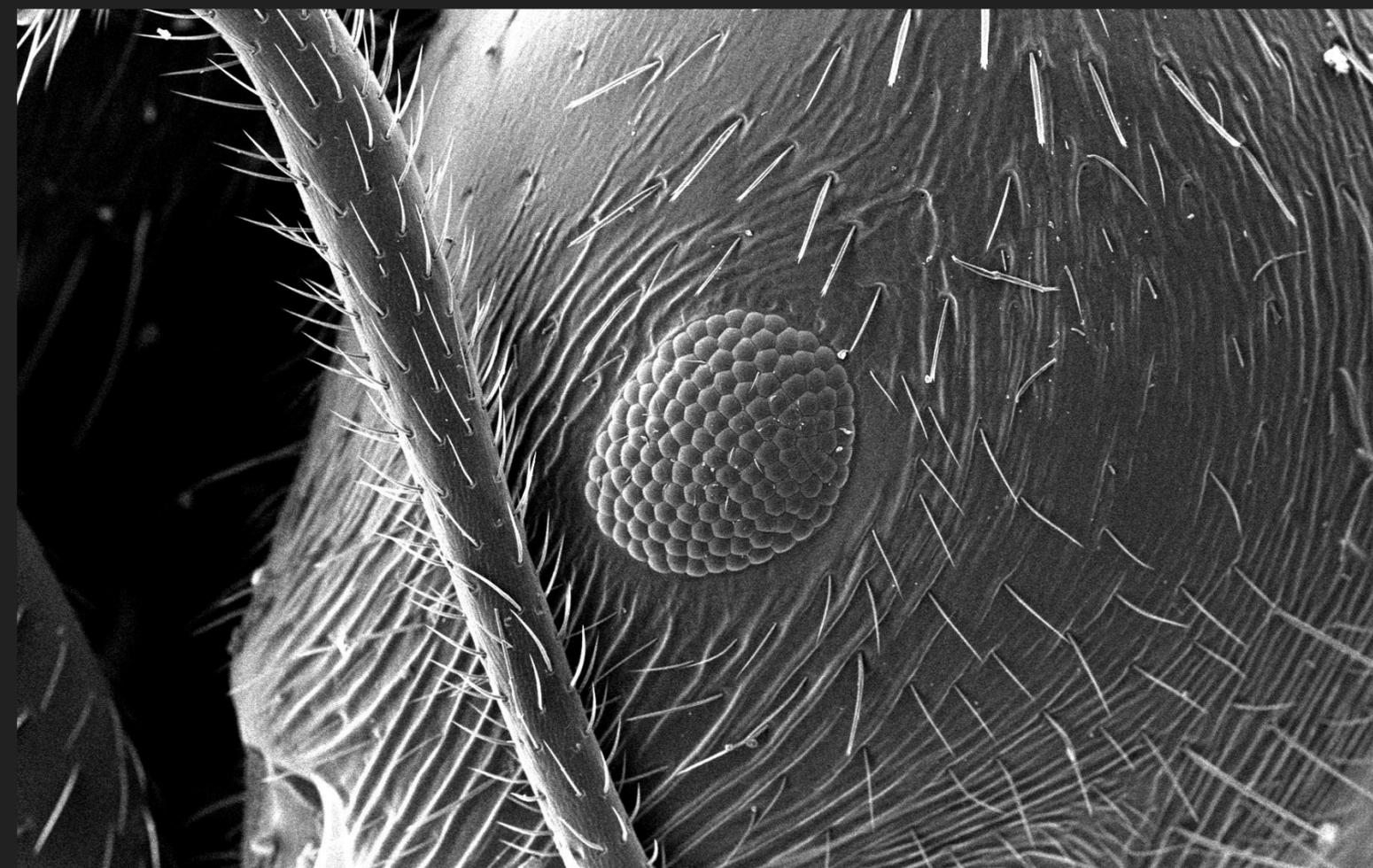
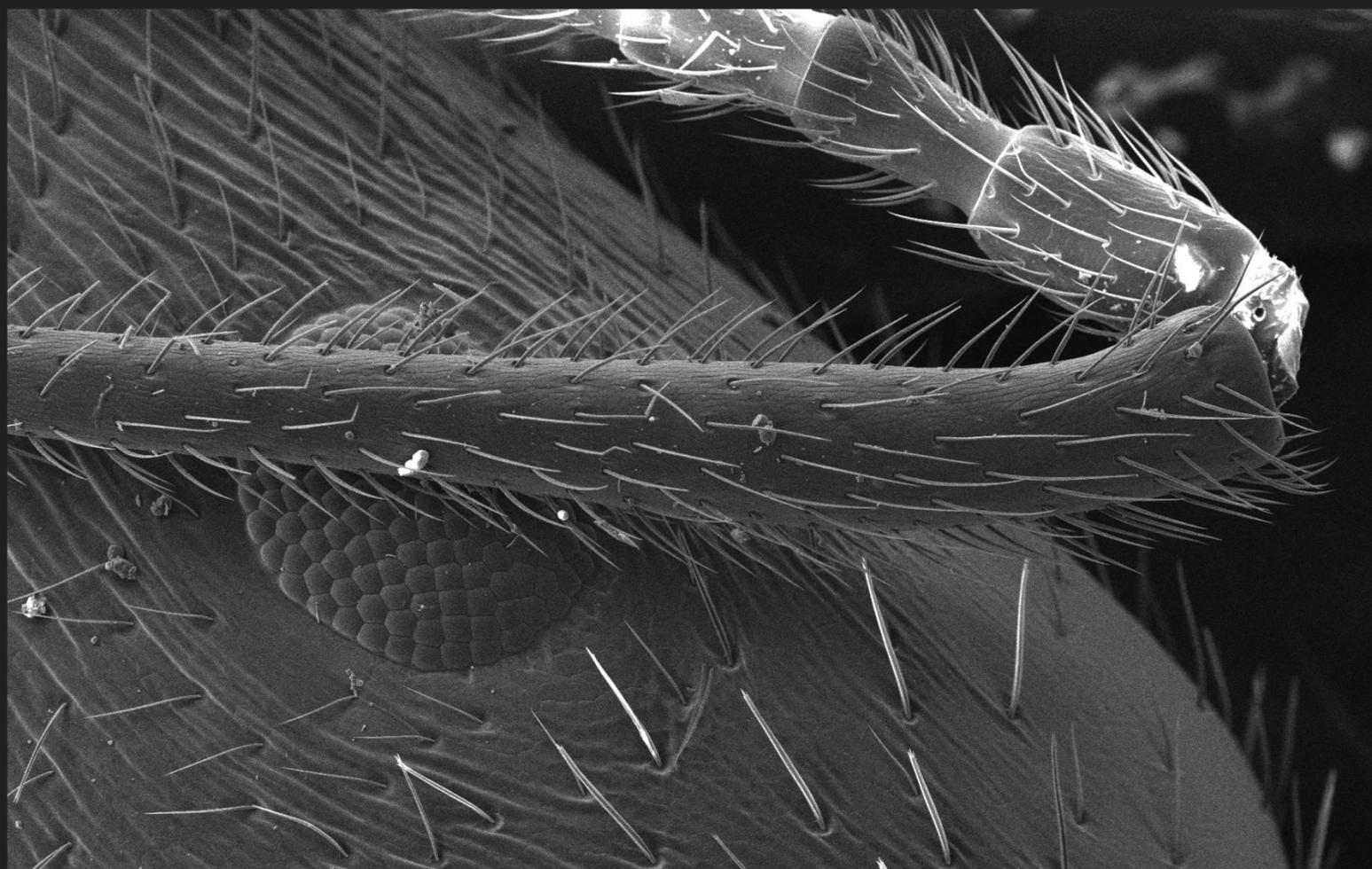
Polystyrene balls - 5 nm platinum coating. PS is known for excessive charging. Moreover it is a hollow 3D structure with thin-walled cells. No charging was observed.



SEM images teflon tape - 2 nm platinum coating (when teflon tape is stretched, very thin (20-30 nm) wires are created that charge, heat, deform, melt and/or break in an electron beam. A 2 nm platinum coating by LUXOR avoids all of this.



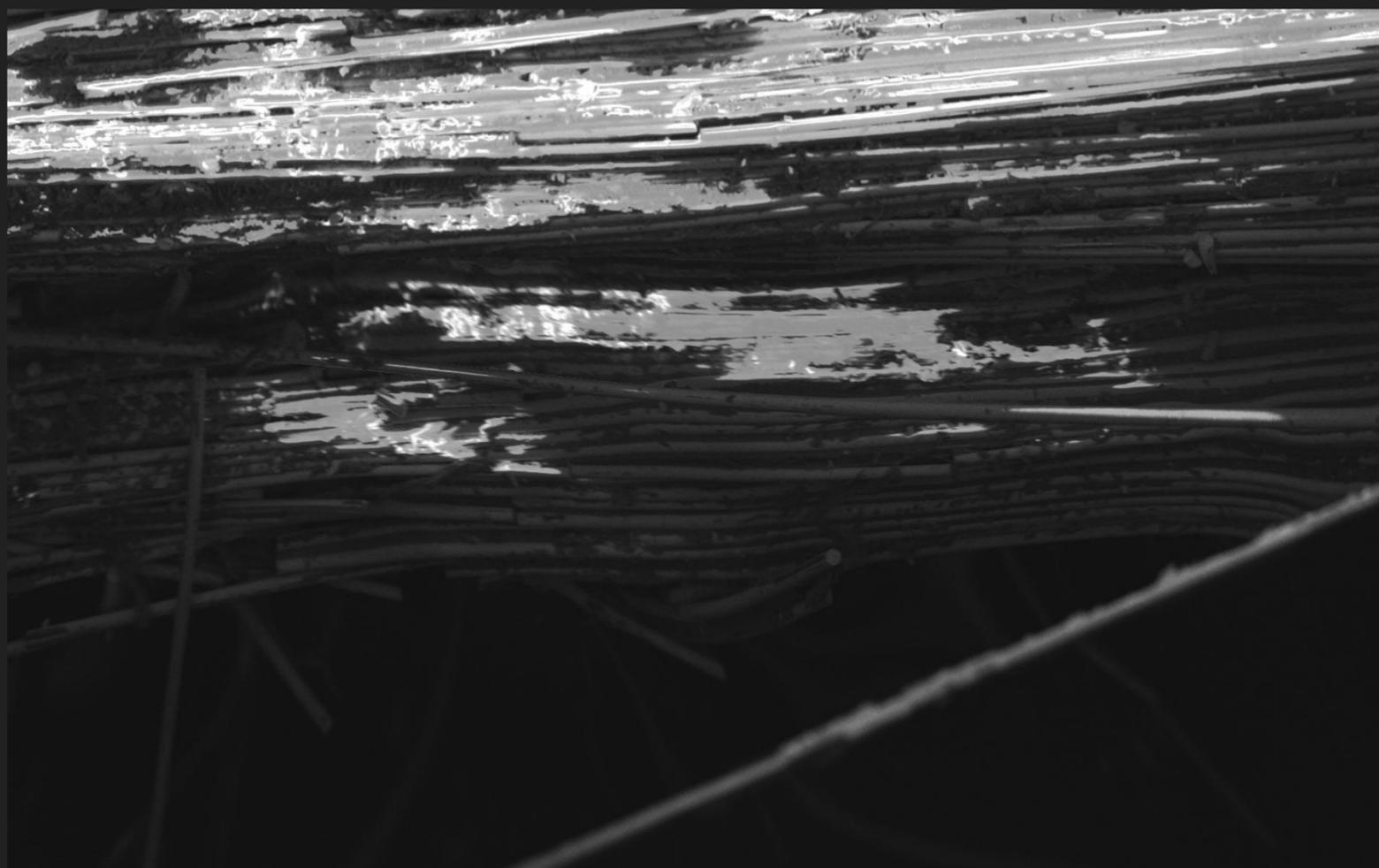
Ant Head- 25-30 nm carbon coating
(Observe the superb resolution, even on sensitive biological structures.)



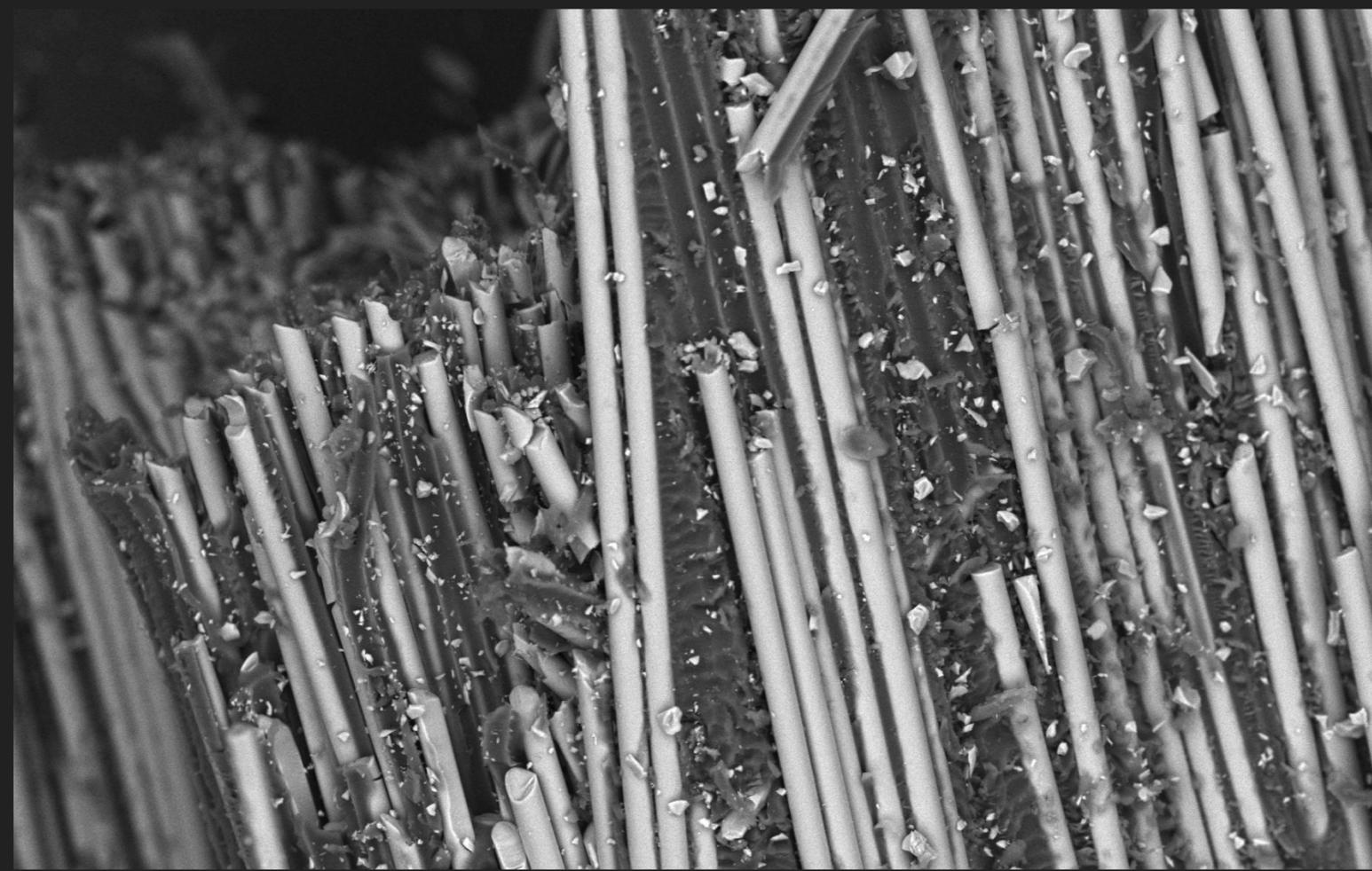
Glass Fiber – Before/ After carbon coating
(Carbon coating prevents charging and is essential for accurate EDS analysis.)



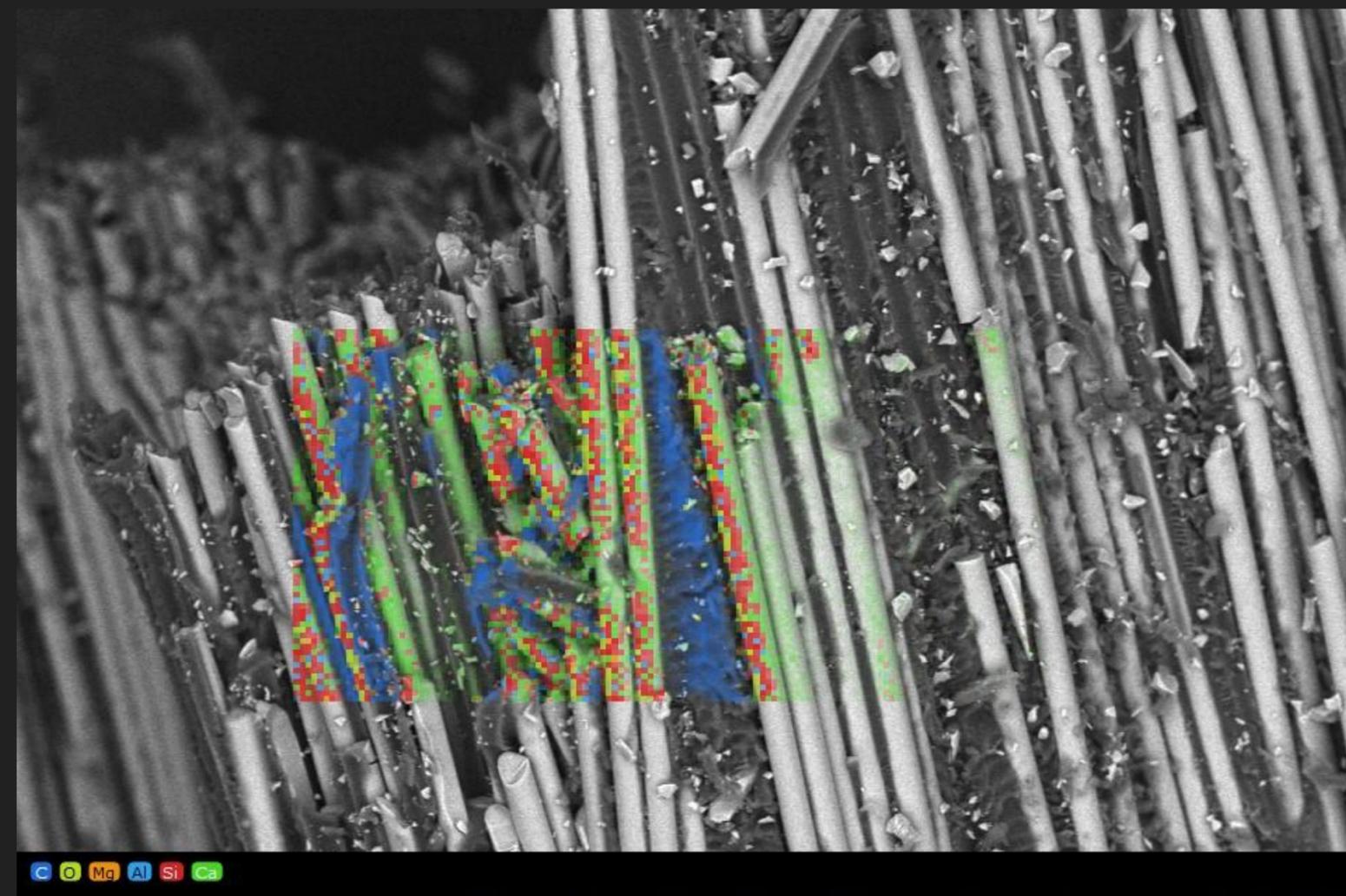
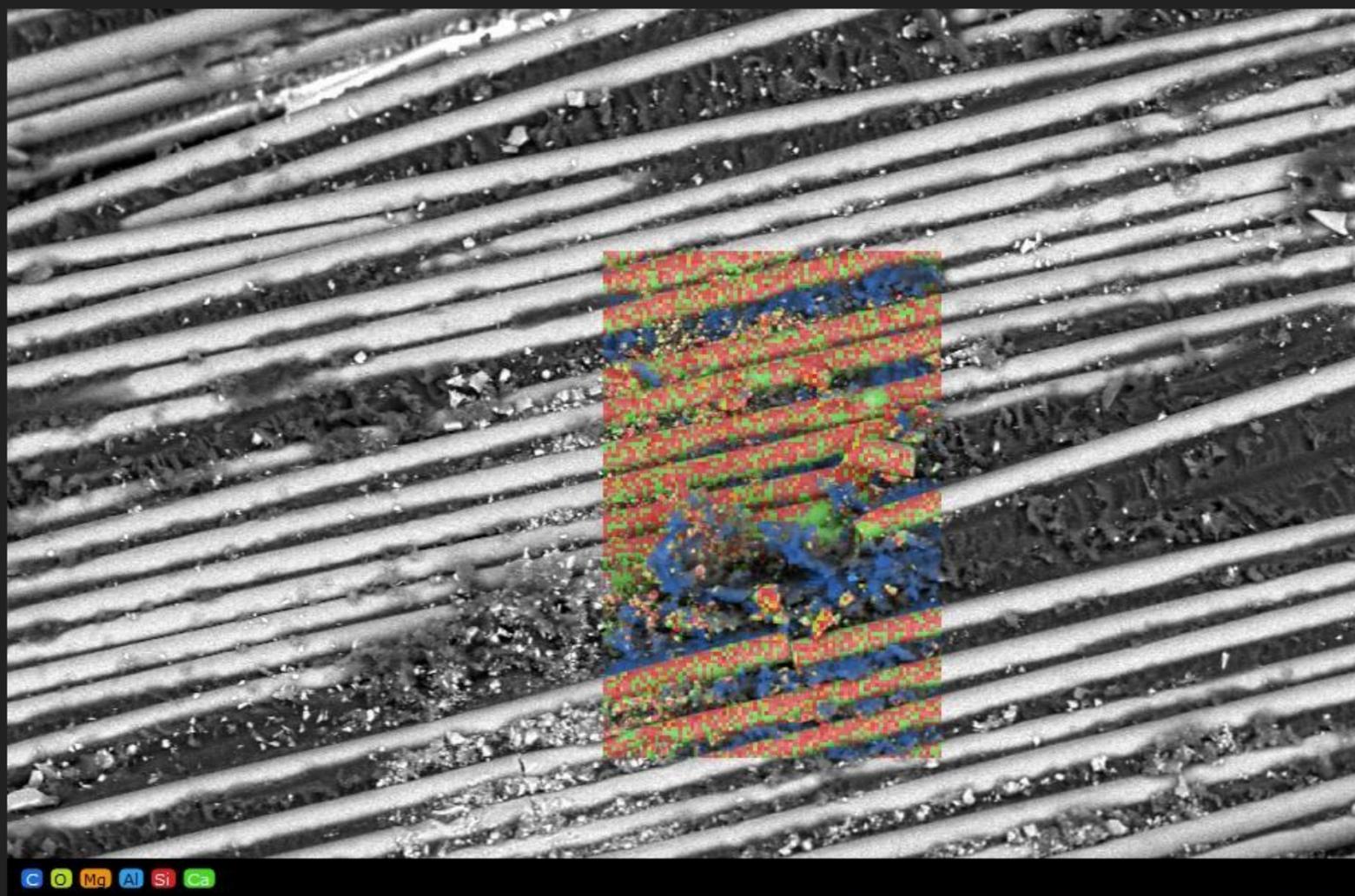
Before coating



After coating



Glass Fiber – EDS analysis
(EDS analysis can be performed after carbon coating)



LUXOR

Configuration

Choose Coater type



LU02-004-AU
Gold coater



LU02-001-C
Carbon coater



LU02-001-PT
Platinum coater

Included



LU02-GOLD100
Gold target



LU02-SHS
Standard pin stub
sample holder



Set of carbon rods
10 pc x 300mm



LU02-SHS
Standard pin stub
sample holder



LU02-PLATINUM100
Platinum target



LU02-SHS
Standard pin stub
sample holder

+

Add the pump



LU02-PUMP
Two-stage pump

As required

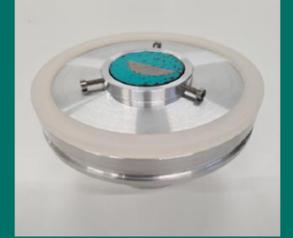
Options



LU02-GOLDPD100



Pressure regulator



LU02-SHE



LU02-SHE
Sample holder for
mounted/embedded samples



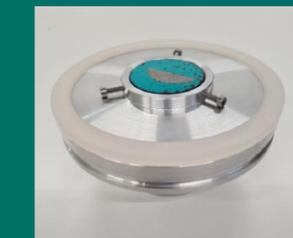
LU02-GOLD100



LU02-GOLDPD100



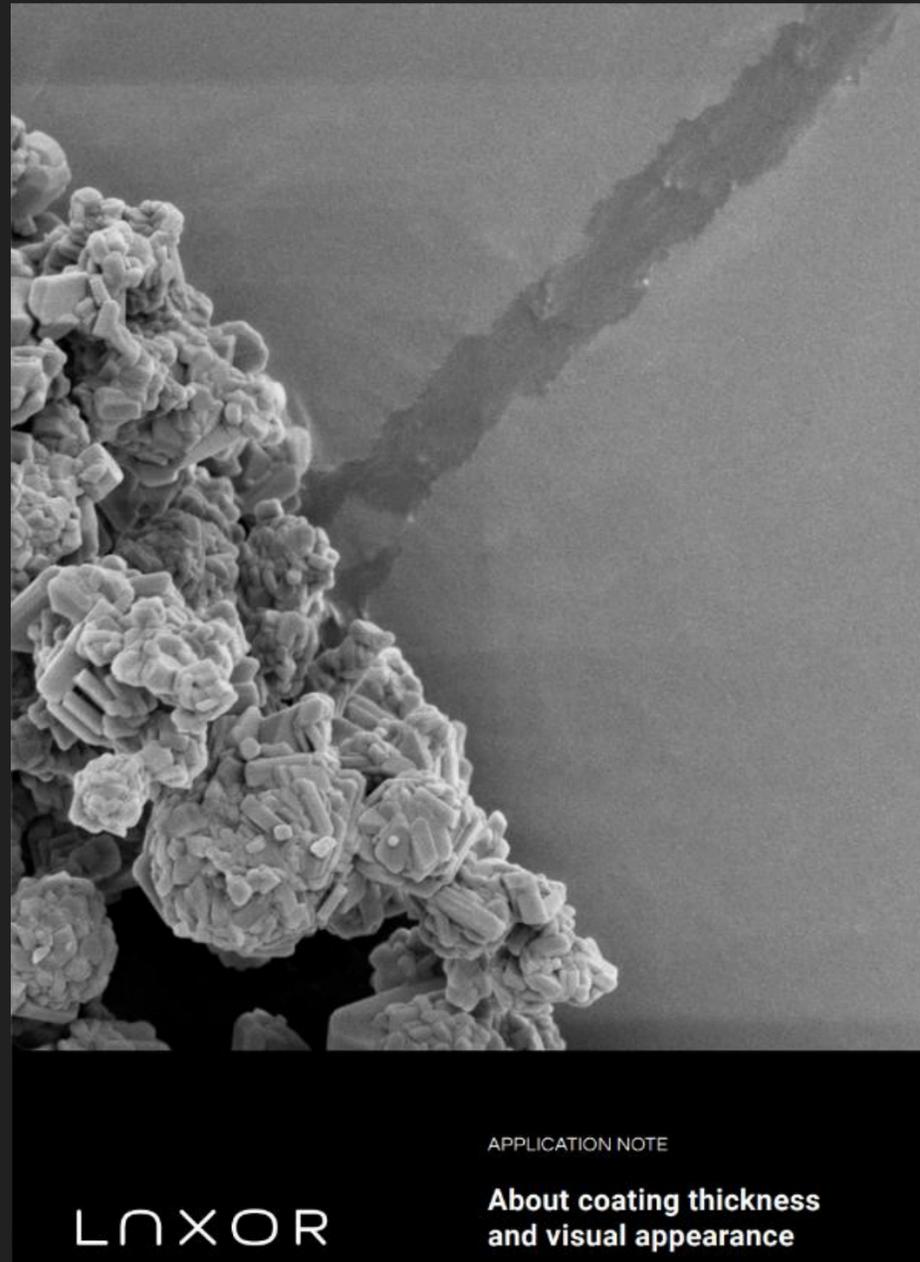
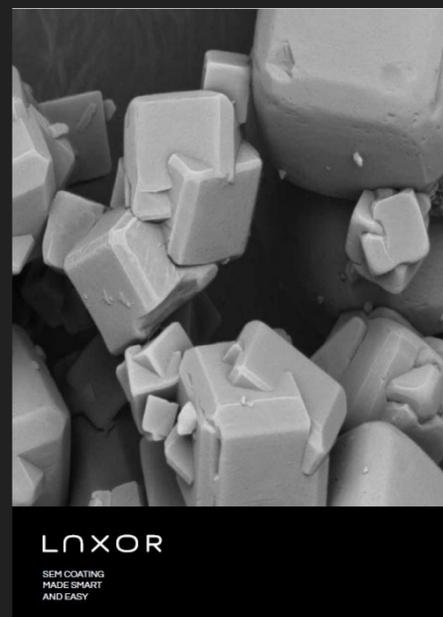
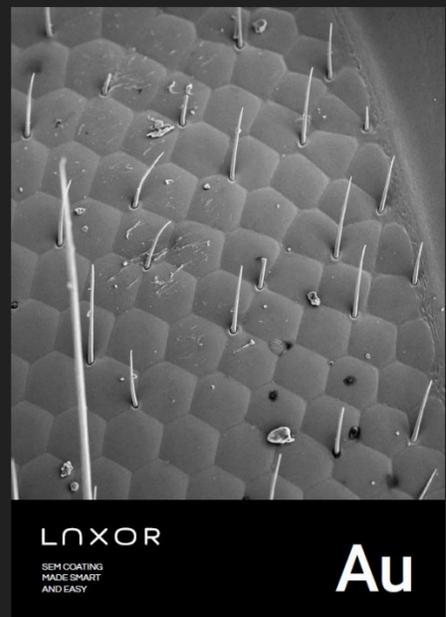
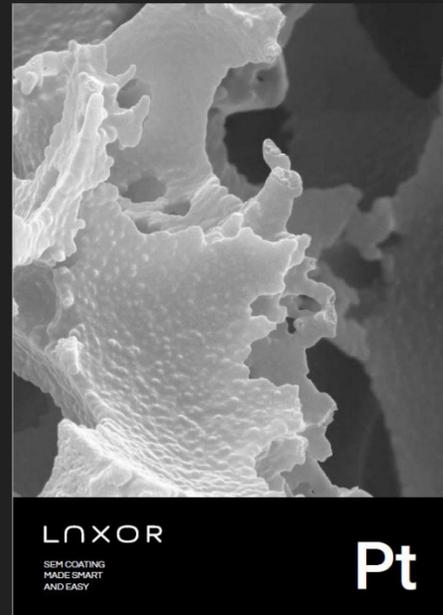
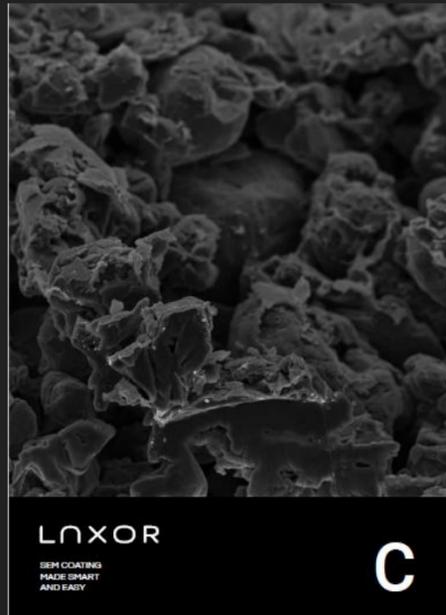
Pressure regulator



LU02-SHE

Product brochures, App notes and so on..

LUXOR



UNCOATED
2000X MAGNIFICATION

LUXOR

PRODUCTS ▾ MARKETS KNOWLEDGE CENTER ABOUT ▾ CONTACT ▾  

APPLICATIONS

- FIBERS AND FILTERS
- LIFE SCIENCES
- PHARMACEUTICALS
- POLYMERS

GUIDES

- BROCHURES
- APPLICATION NOTES
- VIDEO'S
- LUXOR TECHNOLOGY
- SCIENTIFIC PUBLICATIONS
- TESTIMONIALS

KNOWLEDGE CENTER

 <p>LUXOR AT ARCELOR MITTAL STEELWORKS IN BELGIUM TESTIMONIALS</p>	 <p>DANCING ON THE VOLCANO: LUXOR SEM COATER ON THE FAGRADALSFALL IN ICELAND TESTIMONIALS</p>	 <p>UNPACKING VIDEO LUXOR COATER: WHAT'S IN THE BOX VIDEO'S</p>
 <p>INSTALLATION VIDEO LUXOR COATER: ASSEMBLING THE COATER VIDEO'S</p>	 <p>INTRODUCTION TO METAL COATING TECHNOLOGY FOR ELECTRON MICROSCOPY LUXOR TECHNOLOGY</p>	 <p>PART 1 - CHARGING EFFECTS IN ELECTRON MICROSCOPY, AND HOW TO AVOID THEM LUXOR TECHNOLOGY</p>
 <p>PART 2 - BASIC PRINCIPLES OF SPUTTER COATING LUXOR TECHNOLOGY</p>	 <p>PART 3 - HOW VARIOUS PARAMETERS INFLUENCE THE SPUTTER COATING PROCESS LUXOR TECHNOLOGY</p>	 <p>PART 4 - LUXOR A2 TECHNOLOGY: SEM COATING MADE SMART AND EASY LUXOR TECHNOLOGY</p>

1 2 3 NEXT

COATED
10000X MAGNIFICATION

Knowledge center

More information to be found in the knowledge center section on the luxor-tech.com website.

<https://luxor-tech.com/knowledge-center/>

Administration and logistics



Ex Works Nazareth - De Pinte, Belgium

Lead time of 1-2 weeks

Orders via orders@aptco-technologies.com

End user details required

Some of our customers



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Thank you !

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