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## Visit a conservation or research lab

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Prior to the symposium, selected national conservation institutions and universities kindly offer you one of the following guided tours at their conservation and/or research facilities.

All tours are at **Wednesday 30th of October 2019 from 14:00 -16:00**.

The tours are for free, and you will have to arrange your own transport to the location.

Please sign up for one venue as you register for the symposium. The number of participants are limited, and tours may be cancelled, if there are not enough participants. Please read more about the lab tours here, before registering.

Below the following list of tours, you'll find a discription of each tour and a link for further information of the institution.

### National Museum of Denmark

**CATS – Centre for Art Technological Research and Conservation at The National Gallery of Denmark, SMK**

**The Royal Danish Library – Conservation Department**

**The Royal Danish Library – Digitization Department**

**Technical University of Denmark (DTU) – Image Analysis & Computer Graphics**

Please be aware that all tours start at 14.00 unless announced differently.

Also, please be aware that there is a limited amount of participants, and the insitutions are allowed to cancel a tour if there is not enough participant. You will be notified after the deadline of registration (October 1st) if your tour should be cancelled.

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### National Museum of Denmark

The conservation and research laboratories at the National Museum of Denmark carries out a broad range of analyses in relation to conservation, material identification and environmental archaeology.

#### The guided tour will include:

Organic analyses, focusing on GC-MS and FTIR for analyzing e.g. binding media and organic residues

Inorganic analyses, focusing on microscopy, SEM and handheld XRF for analyzing e.g. pigments. Material dynamics, focusing on oxygen consumption and vapour sorption for measuring degradation rates of various materials.

Read more about the lab here: <https://natmus.dk/organisation/forskning-samling-og-bevaring/miljoearkæologi-materialeforskning/>

#### Location:

Section for Environmental Archaeology and Material Science,  
National Museum of Denmark,

I. C. Modewegsvej, Brede,  
2800 Kgs. Lyngby.

To find your way with public transport use [www.rejseplanen.dk](http://www.rejseplanen.dk) or similar sites.

**Start:** Wednesday October 30th at 14:00.

Prior to the symposium, you will receive details about meeting point and exact time by e-mail.  
5-45 participants.

### CATS – Centre for Art Technological Studies and Conservation at the National Gallery of Denmark, SMK

The laboratories of the conservation facilities at the National Gallery of Denmark carries out a broad range of analyses in relation to conservation and material identification of artworks.

#### The guided tour will include:

Presentation of recent research projects including the testing of new cleaning techniques on plastics using gels; further, the establishment of an open access database of ground-layers in paintings will be demonstrated. Multispectral imaging of paintings. Tour of the laboratories with Raman, XRF, FTIR, FORS etc.

Read more about the CATS' activities here: [www.smk.dk/cats](http://www.smk.dk/cats)

#### Location:

The tour will be at the conservation facilities at:

Statens Museum for Kunst,  
Sølvgade 48-50,  
1307 Copenhagen K.

To find your way with public transport use [www.rejseplanen.dk](http://www.rejseplanen.dk) or similar sites.

The meeting point will be at the staff entrance at the west-end of the building.

**Start:** Wednesday October 30, at 14:00.

Prior to the symposium, you will receive details about meeting point and exact time by e-mail.  
5-15 participants.

## The Royal Danish Library – Conservation Department

The conservation facilities at the Black Diamond analyses the area of preventive conservation and artefact conservation.

### The guided tour will include:

Microfading, light policy and documentation.

Materials testing focusing on analysis of degree of polymerization (DP).

Identification of iron gall ink.

Read more about the Royal Danish Library and the conservation here: <http://www.kb.dk/en/nb/afdelinger/bev/index.html>

### Location:

The tour will start at the entrance hall in:

The Royal Danish Library – the Black Diamond,  
Søren Kierkegaards Plads 1,  
1263 Copenhagen K.

To find your way with public transport use [www.rejseplanen.dk](http://www.rejseplanen.dk) or similar sites.

The meeting point will be at the entrance hall of the Black Diamond

**Start:** Wednesday October 30, at 14:00.

Prior to the symposium, you will receive details about meeting point and exact time by e-mail.

5-20 participants

## Technical University of Denmark (DTU) – Image Analysis & Computer Graphics

The research at the section of Image Analysis & Computer Graphics at DTU Compute aims at developing methods for analyzing and visualizing images, which includes vision systems as well as interpretation and understanding of the imaged objects.

The 3D Imaging Center at DTU is a research and infrastructure center, where the use of 3D methods is widely used in both internal research and in collaboration with external partners. The center is collaborating with more than 25 different department and institutions.

### The guided tour will include:

Presentation of the instrumentation used measuring 3D structures.

Optical 3D surface scanning: How to study the surface of 3D objects with high resolution.

Characterizing apparent optical properties of materials:

Demonstration of a robot-setup, and a hyperspectral 3D scanner

X-ray CT scanning for material characterization: How to study the internal structure of materials

Digitizing museum collections using the travelling optical 3D surface scanner, and other examples of how 3D imaging techniques can be applied in natural/cultural heritage and archaeology.

## The Royal Danish Library – Digitization Department

The Digitization department at the Royal Danish Library is responsible for digitizing various types of archive and library materials, including books, journals, maps, graphic art, and photographic images. The department specialises in digitization that supports the preservation, documentation and analysis of these materials.

### The guided tour will include:

Digitization at the Royal Danish Library – an intro.

Specialized preservation digitization; handling, capture and image processing.

Spectral imaging and data analysis, including pigment analysis.

Read more about the department here: <http://www.kb.dk/en/kb/service/digitalisering2/index.html>

### Location:

The tour will take place at:

The Royal Library - Digitization Department,  
Lergavsvej 55,  
2300 København S.

To find your way with public transport use [www.rejseplanen.dk](http://www.rejseplanen.dk) or similar sites.

**Start:** Wednesday October 30th, at 14:00.

Prior to the symposium you will receive details about meeting point and exact time by e-mail.

5-15 participants.

Read more about DTU and the two labs here:

<https://www.compute.dtu.dk/english/research/Research-sections/Image>

<http://www.imaging.dtu.dk/>

### Location:

Image Lab of the Section for Image Analysis & Computer Graphics, and the lab of the 3D Imaging Center, both located at DTU:

Technical University of Denmark  
Richard Petersens Plads, Building 321 (Image Lab) / Fysikvej,  
Building 309 (3D Imaging Center)

2800 Kgs. Lyngby

To find your way with public transport use [www.rejseplanen.dk](http://www.rejseplanen.dk) or similar sites.

**Start:** Wednesday October 30th, at 14:00.

Prior to the symposium you will receive details about meeting point and exact time by e-mail.

5-50 participants.