The Bureau of scientific and technical expertise “Art-Lab"

About ART-LAB

•The Bureau of scientific and technical expertise “ART-LAB” was founded at 2009

• The task of “ART-LAB” is a complex technical and technological expertise of the art objects

•The main advantage of “ART-LAB” is a team of highly qualified employees with scientific degrees in the field of physical, analytical, inorganic chemistry and extensive experience in the physical-chemical and technological researches

•Today BSTE “ART-LAB” is one of the leading companies in Ukraine and the CIS in the field of technological research of art objects

OUR MISSION

- To transform the technological expertise of art objects to powerful mechanism on the way of moving to the civilized art market in accordance with international standards

- Help in conservation, attribution and certification of the cultural heritage of Ukrainian museums

- Strengthening and development the relations and cultural understanding among people in Ukraine and the world community

- Protection of customers' interests during buying and selling of art objects

Features of technological expertise of art objects

Due to using of modern research methods and equipment of last generation it makes possible to determine the time of the creation of art object within 25 years

IMPORTANT! The conclusions of Art Lab examination are not of the attributive nature i.e. they do not determine the affiliation of an expertise object to a particular master. It only shows that the resulting objective technological data either does not contradict modern conception about the specific technological features of the given time, or, quite the opposite, contradicts, determines the presence / absence of signs of falsification. It can be used as a technological passport of studied art object

For whom we work

Complex technological expertise of the art objects are important both for conservators and art historians, as well as for the curators of museum collections, art dealers, auction houses and owners of private collections

Drawings

Lithograph

Coins

Painting

Engravings

Graphic arts

Estampes

Manuscripts

What kinds of art objects can we investigate?

Prints

Sculpture

Icons

Interior decorations

Musical instruments

Ceramics

Guns and swords

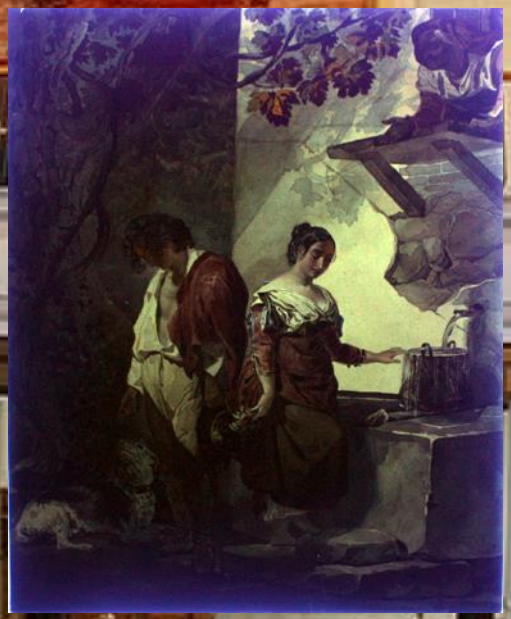
Collages

Art glass

Painting

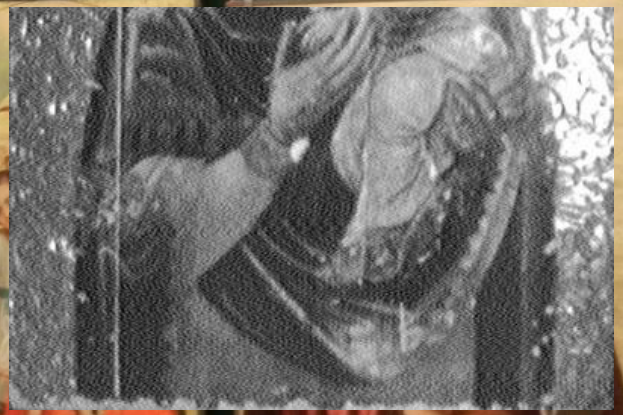
Diego Rodríguez de Silva y Velazquez (1599-1660)
«Portrait of the Infanta Margarita », 80x62, canvas, oil
Bohdan and Varvara Khanenko National Museum of Arts, Kyiv

Drawings



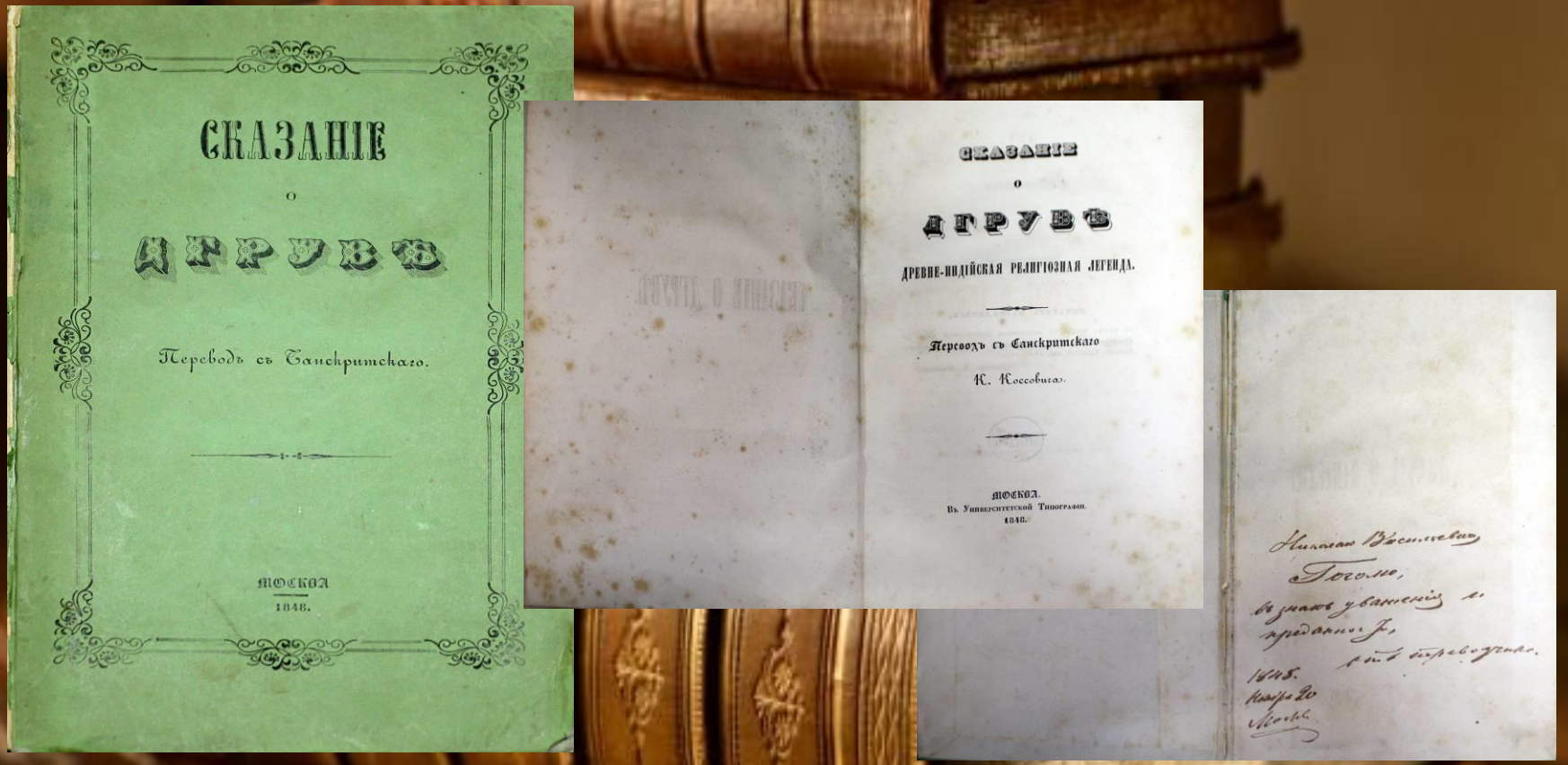
Shevcheno T. (1814 - 1861) «Interrupted rendezvous», 1839-1840, 23x18,5, watercolor, paper
Taras Shevchenko National Museum

Icons



Kiev-Bratsk Icon of Mother of God,
133x97, tempera, wood
National Art Museum of Ukraine

Books, papers and prints

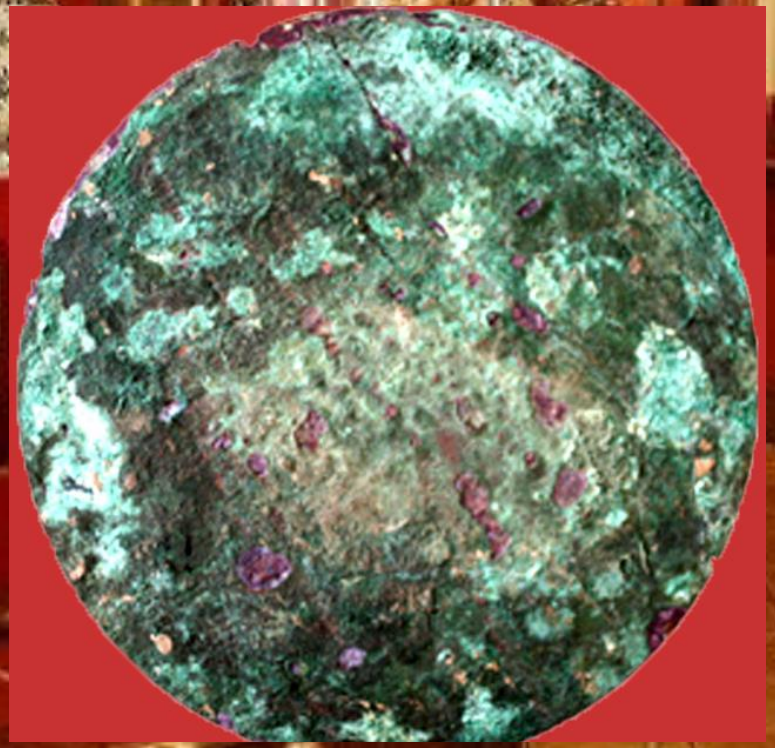


Book «Legend about Druve», 1848,
National Academy of Pedagogical Sciences of Ukraine

Wooden crafts
(including home furnishings, musical instruments, etc)

Wooden cabinet painting with oil paints,
Bohdan and Varvara Khanenko National Museum of Arts, Kyiv

Metallic hardware
(incuding coins, swords, guns, jewelry, etc.)



Mirror, diameter 11,6 cm, copper alloy, casting, II - late I BC
Bohdan and Varvara Khanenko National Museum of Arts, Kyiv

Ceramic and glass
(including enamel, tiles, mosaics, glassware)

Tessera glazes from St. Sophia and from St. Michael's Cathedral, XI cent.,
National Sanctuary Complex "Sophia of Kiev"

UV fluorescence

Digital microscopy

We use non-destructive and non-contact methods of research

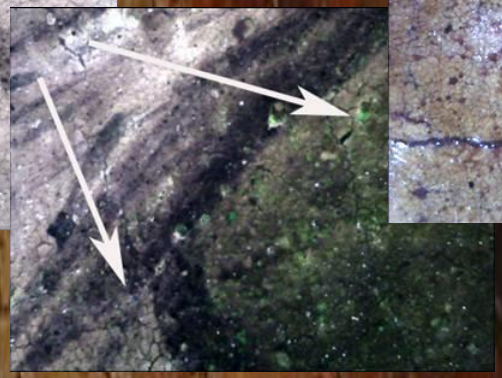
IR reflectographic analysis

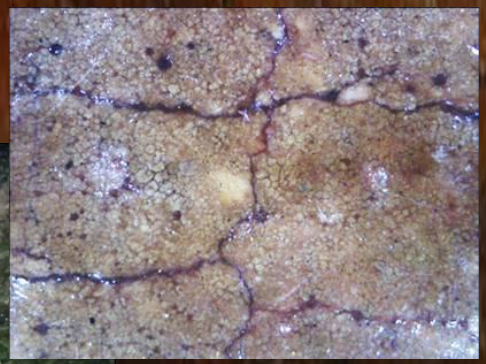
Optical microscopy

XFA (X-ray fluorescence analysis)

Research by optical and digital microscopic imaging techniques

The study of painting of Gentile Bellini (1429-1507) **«Portrait of a patrician»**, 67x100, tempera, canvas, Bohdan and Varvara Khanenko National Museum of Arts, Kyiv





Research at ultraviolet diapason

(fluorescence of white and other pigments, varnishes, determination of restorations location)

Painting images in visible and UV light

A copy of Battista Salvi da Sassoferrato (1609-1685) work **«Madonna and a child»**, 58x44, oil, canvas
Bohdan and Varvara Khanenko National Museum of Arts, Kyiv

Research at infrared diapason
(IR reflectography analysis)

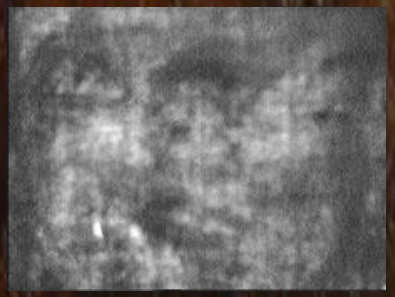
(detection of hidden inscriptions / labels, preparatory drawings, large-scale grid,

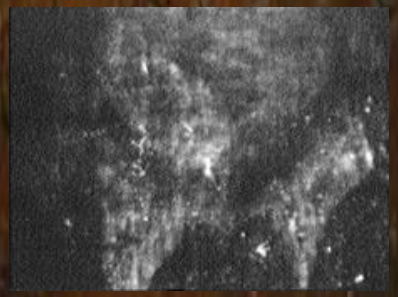
Research of painting “The portrait of a Venetian Doge Girolamo Priuli” by Tiziano Vecellio (1477-1576) , 66x50, oil, canvas
Museum of Western and Eastern Art, Odessa

Painting image
at the visible side light

Painting image
at the IR side light

Fragments macro photo of painting images
at the IR side light





Fragments macro photo of painting
at transmitted IR light

XRF analysis
(X-ray fluorescence analysis)

(determination of inorganic composition of pigments, ground and bases of art objects)

Specifies the binding media,
oil aging degree, pigments and dyes

The study of the microsamples of the art object by method of Fourier transformation infrared spectroscopy (FTIR)

(FTIR analysis provides information about binding media, varnishes, glues, organic pigments and synthetic dyes, fillers, driers, fibres, corrosion products as well as the organic composition and the degree of aging of the binder and the bases)

IR spectrometer Vertex 70 FTIR (Bruker Optics production, Germany) equipped with frustrated total internal reflection attachment Platinum ATP with diamond window is the pinnacle of the company's development

Using FTIR spectrometer is ideal for solving complex analytical and research applications.

Art-Lab participation in international scientific conferences and publications

- **6** articles at the publication Materials of scientific conference "Examination and attribution of works of fine and decorative arts" Moscow, 2009-2012 and 2014-2015
- *3* articles at the publication Materials of International conference “The research, restoration and preventive conservation of museum objects”. Current state, prospects», Kyiv, 2011, 2013 and 2016.
- ***2*** articles at the publication Materials of International conference «Lviv Chemical reading», Lviv, 2013 and 2015.
- **1** article at the publication Materials of International conference “Research, reproduction, preservation and promotion of cultural heritage” Uzhgorod, 2015.
- 1 article at the publication Materials of International conference “Museums and Restoration as instruments of cultural heritage preservation: present day challenges”, Kyiv, 2016

Collaboration with museums

(on non-commercial basis according of concluded contracts)

1. Bohdan and Varvara Khanenko National Museum of Arts, Kyiv
2. National Sanctuary Complex "Sophia of Kiev"
3. National Kiev-Pechersk Historic-Cultural Preserve
4. National Art Museum of Ukraine
5. The Andriy Sheptyts'kyi National Museum in Lviv
6. National Museum of the History of Ukraine
7. Dnipropetrovsk Art Museum
8. Museum of Western and Eastern Art, Odessa
9. Taras Shevchenko National Museum
10. National Academy of Pedagogical Sciences of Ukraine
11. Zmievskiy Local Lore Museum, Kharkiv region

Lecturers and working with students

Regular lectures for

- student-conservators of the National Academy of Fine Arts and Architecture
- students in cultural studies of the National University of "Kyiv-Mohyla Academy»
- students of the International Institute of Business

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