



#UNIVERSITÉSENGHOR  
université internationale de langue française  
au service du développement africain



**Qalam**  
For Knowledge Production



**CONFERENCE PROGRAMME**

**CONNECTING HERITAGE SCIENCE  
TO THE HERITAGE OF SCIENCE**

**6 –9 April 2025**  
**Bibliotheca Alexandrina,**  
**Conference Center**

**Conference Language:**  
English



### Conference theme:

The conference will provide an opportunity for stakeholders from national, Arab and African cultural heritage institutions to engage with counterparts from EU large research initiatives and cultural heritage infrastructures to build a sustainable strategic partnership in the field of heritage science. The conference also aims to present and discuss the knowledge and understanding of the history and heritage of science in Egyptian civilisations from prehistory to modern times and the role of research infrastructures and research innovations in the field of cultural heritage as well as national, regional and international cooperation in the interpretation, preservation and sustainability of cultural heritage. This will enable the audience to appreciate the depth, breadth and relevance of cultural heritage to scientific and technological innovation. The conference will provide fundamental knowledge about the scientific and technological evolution and practice in Egyptian heritage, including medicine, chemistry, art, literature, physics, environment, as well as the scientific concepts and traditions, and familiarise the public with the most important scientific and educational centers in Egypt throughout history.

## Sunday 6<sup>th</sup> April 2024 Small Theatre

- 13:00-15:00 • **Coming together and Registration in BA Conference Center**
- 15:00-16:30 • **Tour of Bibliotheca Alexandrina**
- 16:30-17:00 • **Reception at VIP Lounge, Conference Center**

**Opening Remark (3 min each): Emcee: Dr. Marwa El-Wakil**, Head of Academic Research Sector, Bibalex

- 17:00-17:30 • **H.E. Prof. Dr. Ahmed Zayed**, Director of Bibliotheca Alexandrina (Bibalex), Egypt
- **H.E. Mr. Sašo Podlesnik**, Ambassador of the Republic of Slovenia to Egypt – invited
- **H.E. Vice Admiral Ahmed Khaled Hassan Saeed**, Governor of Alexandria - invited
- **H.E. Prof. Dr. Ahmed Henno**, Minister of Culture, Egypt - invited
- **H.E. Mr. Sherif Fathy**, Minister of Tourism and Antiquities, Egypt - invited
- **H.E. Prof. Dr. Mohamed Ayman Ashour**, Minister of Higher Education and Scientific Research, Egypt - invited

### Ceremony for Establishment of E-RIHS Egypt

- 17:30-17:45 • **“Signing the MoU between the Academy of Science and Technology (ASRT) in Egypt and the European Research Infrastructure for Heritage Science (E-RIHS), EU”**

**Research Enabling Institutions: (5 min each): Emcee: Dr. Azza Ezzat**, the Conference Coordinator, Bibalex

- 17:45-18:15 • **Prof. Dr. Gina El-Feky**, President of Egypt Academy of Science and Technology (ASRT), Egypt
- **Prof. Dr. Mamdouh Eldamaty**, Egypt Representative in the European Research Infrastructure for Heritage Science (E-RIHS) Enlargement Board, Egypt
- **Prof. Dr. Gihane Zaki**, Researcher at CNRS- Sorbonne University, France; Member of Institut d’Egypte, Egypt
- **Dr. Pascal Liévaux**, Coordinator of the Joint Programming Initiative on Cultural Heritage and Global Change (JPI CH), Ministry of Culture, France
- **Dr. Vania Virgili**, Interim Director General, the European Research Infrastructure for Heritage Science (E-RIHS), EU
- **Prof. Dr. Thierry Verdel**, Rector of Université Senghor, Egypt
- **Prof. Dr. Mohamed Daa Zain El-Abdeen**, President of Ain Shams University, Egypt - invited

- 19:30-21:30 • **Gala Dinner on the rooftop of “Le Metropole Hotel”, provided by Université Senghor (Alexandria)**  
**Address: 52 Saad Zaghlol Street, El-Raml Station**

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# Monday 7<sup>th</sup> April 2024

## Small Theatre

**Session 1 (20 min each): The Heritage of Science -1: Moderator: Prof. Dr. El-Sayed Mahfouz, Professor of Egyptology, Kuwait University, Kuwait.**

- **Prof. Dr. Okasha El-Daly**, Institute of Archaeology, UCL, UK, **The Reception of Ancient Egyptian Science in Medieval Arabic Sources**
- **Prof. Dr. Stephen Quirk**, Institute of Archaeology, UCL, London, UK, **Technical Precision: Ancient Egyptian Knowledge in Practice**
- **Prof. Dr. Fayzah Haikal**, American University in Cairo (AUC), Egypt, **The Ancient Egyptian Language and its Continuity in Modern Egypt**
- **Prof. Dr. Mamdouh Eldamaty**, Ain Shams University, Egypt, **Science and Science Cities in Ancient Egypt**
- **Prof. Dr. Albrecht Fuess**, Center for Near and Middle Eastern Studies, Philipps University Marburg, Germany, **Linking Cultural Heritage between Germany and Egypt through Scientific Cooperation in the Taziz Programme**

(10 min with Q&A)

11:00–  
11.30 **Coffee Break**

**Session 2 (20 min each): The Global Landscape of Heritage Science: Moderator: Prof. Dr. Matija Strlič, Chair of E-RIHS.si Steering Committee, Slovenia)**

- **Dr. Pascal Liévaux**, Joint Programming Initiative on Cultural Heritage and Global Change (JPI CH), Ministry of Culture, France, **The JPI Cultural Heritage: 15 years of Joint Programming in Research on Cultural Heritage and Global Change**
- **Mr. Alexandre Caussé**, Alliance for Research on Cultural Heritage in Europe – ARCHE, Ministry of Culture, France, **ARCHE, and Alliance towards an EU Partnership on «Resilient Cultural Heritage»**
- **Dr. Vania Virgili**, European Research Infrastructure for Heritage Science (E-RIHS), EU, **E-RIHS: The European Research Infrastructure for Advancing Heritage Science**
- **Mr. Xavier Rodier**, European Cloud for Heritage OpEn Science (ECHOES), EU, **The Digital Commons at the Core of the Cultural Heritage Cloud (ECHOES)**
- **Prof. Dr. Hany Helal**, UNESCO Chair of Science and Technology for Cultural Heritage, Cairo University, Egypt, **Enabling Research Innovation in Heritage Science through the UNESCO Chair**

(10 min with Q&A)

13:30–  
15:00 **Coffee Break**

**Session 3 (15 min each): International Collaboration towards a Global Research Infrastructure for Heritage Science: Moderator: Dr. Polonca Ropret, Head of Research Institute, Institute for the Protection of Cultural Heritage of Slovenia; National Coordinator of E-RIHS Slovenia; Chair of E-RIHS Interim Committee of National Nodes (iCNN)**

- **Mr. Rémi Petitcol**, Fondation des Sciences du Patrimoine (FSP), France, **Integrating Cultural Heritage Communities through a Collaborative Cloud and Research Infrastructures**
- **Dr. Alison Heritage**, International Centre for the Study of the Preservation and Restoration of Cultural Property (ICCROM), **Shaping Heritage Science: Aligning Global Collaboration with Local Needs**
- **Dr. Osama El-Nahas**, Islamic World Educational, Scientific and Cultural Organization (ICESCO), Morocco, **ICESCO Contribution to the Heritage Science Research and Innovation**
- **Prof. Dr. Hugues Heumen Tchana**, National Museum of Cameroon, Cameroon, **Museum Cooperation and Development in Africa: Context, Stakes, Challenges in the Era of the Restitution of Heritage and the Circulation of Work of Art.**
- **Prof. Dr. Ribio Nzeza Bunketi Buse**, Université Senghor, Alexandria, Egypt, **Université Senghor: A 3 Decade-Trajectory of Training African Cultural Professionals**

(10 min with Q&A)

18:00–  
19:00 **Early Dinner**  
Address: TBC

**Tuesday 8<sup>th</sup> April 2024**  
**Lecture Hall**

**Session 4 (20 min each): E-RIHS National Nodes: Moderator: Dr. Pascal Liévaux, Coordinator of The Joint Programming Initiative on Cultural Heritage and Global Change (JPI CH), Ministry of Culture, France**

- 09:00  
-11:00
- **Dr. Costanza Miliani, E-RIHS Italy, From Macro to Micro: Advancing E-RIHS.it Access Services for Non-Invasive Diagnosis of Archaeological Sites and Artifacts**
  - **Prof. Dr. Matija Strlič, E-RIHS Slovenia, E-RIHS Slovenia and the Slovenian-Egyptian Heritage Science Platform (SloveNile)**
  - **Mr. Rémi Petitcol, E-RIHS France, E-RIHS France and the FSP: A Nexus for Cultural Heritage and Research Collaboration**
  - **Mr. Jan van't Hof, E-RIHS Netherlands, A Pyramid has a Broad Base; Dutch Interaction between Researchers, Infrastructure, and Cultural Heritage**
  - **Prof. Dr. Mamdouh Eldamaty, E-RIHS Egypt, Towards E-RIHS Egypt: Roadmap and Expectations**

**(10 min with Q&A)**

11:00-  
11:30 **Coffee Break**

**Session 5 (20 min each): Heritage of Science -2: Moderator: Prof. Dr. Pierre Tallet, Director of IFAO - Institut français d'archéologie orientale, Egypt**

- 11:30-  
13:30
- **Prof. Dr. El-Sayed Mahfouz, Kuwait University, Kuwait & Prof. Dr. Abdelrazek Elnaggar, University of Ljubljana, Slovenia, Resourcing Ancient Egyptian Incense Antyous: Interdisciplinary Project for Archaeometric Evidence**
  - **Prof. Dr. Eid Mohamed, Nile University, Egypt, Mapping Arabic Literary Heritage: Digital Humanities as a Catalyst for Cultural Preservation and Revival**
  - **Dr. Azza Ezzat & Dr. Mohamed Ismaeel, Bibliotheca Alexandrina, Egypt, The Medicinal Plants in Ahmed Pasha Kamal's Dictionary of Plants and Trees: A Glimpse into Ancient Egyptian Remedies**
  - **Prof. Dr. Hend Mohamed, Menia University, Egypt, Cairo Museum of Hygiene**
  - **Mrs. Rudeina Bayoumi & Dr. Nesreen Monir, Ministry of Tourism and Antiquities, Egypt, The Coptic Surgical Instruments: Texts, Uses, and its Development**

**(10 min with Q&A)**

13.30-  
14.30 **Lunch**

**Session 6 (20 min each): Heritage of Science -3: Moderator: Prof. Dr. Maher Eissa, Professor of Coptic Heritage, Fayoum University, Egypt**

- 14.30-  
16.30
- **Dr. Ahmed Mansour, Bibliotheca Alexandrina, Egypt & Dr. Hesham Hussein, Ministry of Tourism and Antiquities, Egypt, Inherited Traditions, and Practices: The Heritage of Metalworking in Ancient Egypt**
  - **Prof. Dr. Dina Ezz El-Din & Dr. Heba Magdy, Alexandria University, Egypt, Healing Waters: Unveiling the Legacy of Hydrotherapy in Egypt**
  - **Prof. Dr. Ghazwan Yaghi, Organization of the Arab-Dutch Cultural House, Houten, The Netherlands, The Saqiyah: A Prominent Landmark of our Scientific Heritage**
  - **Prof. Mohamed Ibrahim, Ain Shams University, Egypt, Science of Chivalry through the Mamluk Era**
  - **Dr. Shereen Elkabbani, Bibliotheca Alexandrina, Egypt, The Egyptian Mamluki Veterinarian «Abu Bakr bin Badr al-Din al-Baytar» and his Impact on the Islamic Veterinary Science**

**(10 min with Q&A)**

**Closing Remarks**

- 16.30-  
17:00
- **Prof. Dr. Abdelrazek Elnaggar:** Coordinator of the Slovenian-Egyptian Heritage Science Platform; President of the National Network of Science Museums and Centers
  - **Dr. Azza Ezzat:** Bibliotheca Alexandrina; National Network of Science Museums and Centers

**Excursion in Alexandria (Greco Roman Museum- Qaitbay Citadel)  
– Tickets to be purchased by the participants on site.**



## **Training Course on Non-Invasive Characterisation of Archival Heritage by Application of Vibrational Spectroscopic Techniques''**

Bibliotheca Alexandrina, Alexandria, Egypt  
Main Building – Third Floor Floating Room  
**9th April 2025**

### **Organizers:**

- European Research Infrastructure for Heritage Science – Slovenian Node (E-RIHS Si), Slovenia
- Manuscripts Center and Museum, Outreach Sector, Bibliotheca Alexandrina
- National Network of Science Centers and Museums- Sci-Her, Ain Shams University, Egypt
- Slovenian-Egyptian Heritage Science Platform (SloveNile), Slovenia
- UNESCO Chair of Science and Technology for Cultural Heritage, Cairo University, Egypt

### **Conference theme:**

Non-invasive analysis of cultural heritage is crucial, as sampling is often restricted or even entirely prohibited. The development of portable instruments has facilitated non-invasive measurements, with spectroscopic methods playing a crucial role. In this workshop, participants will gain hands-on experience with portable instruments such as FTIR and Raman spectrometers, allowing them to analyse the molecular compositions of selected mock-ups and real archival objects. The emphasis will be put to works on paper; however, other objects will also be also included. The attendees of the workshop are also invited to bring their own objects to be analysed. The Manuscripts Center and Museum in Bibliotheca Alexandrina will be also presenting a workshop discussing the benefits of the non-destructive analysis for a conservator.

### **Target Audience**

- 25 persons: 20 Conservators from BA + 5 participants from different Egyptian heritage Institutions

**For any information, please contact course coordinator on: [h.ebeid@arch.asu.edu.eg](mailto:h.ebeid@arch.asu.edu.eg)**

## Training Course on Non-Invasive Characterisation of Archival Heritage by Application of Vibrational Spectroscopic Techniques"

Bibliotheca Alexandrina, Alexandria, Egypt  
Main Building – Third Floor Floating Room

**9th April 2025**

Time	Content
8:30 - 9:00	<b>Orientation Session in the Chemical and Restoration Labs in Bibliotheca Alexandrina</b>
9:00 - 9:15	<b>Welcome speeches:</b> <b>Prof. Dr. Ahmed Zayed</b> , Director of Bibliotheca Alexandrina, Egypt <b>Prof. Dr. Gina El-Feky</b> President of Egypt Academy of Scientific Research and Technology, ASRT, Egypt <b>Prof. Dr Matija Strlič</b> , Chair of E-RIHS Si Steering Committee, Slovenia. <b>Prof. Dr. Hany Helal</b> , Head of UNESCO Chair, Cairo University, Egypt <b>Prof. Dr. Mamdouh Eldamaty</b> , Sci-Her Network, Ain Shams University, Egypt
9:15 - 9:45	Lecture: <b>Mei Bayoumi</b> , Manuscripts Conservation Specialist. Bibliotheca Alexandria: <b>Benefits of Non-Destructive Analysis for a Conservator</b>
9:45 - 10:15	Lecture: <b>Dr. Hassan Ebeid</b> , Associate Professor of Conservation of Archival Heritage, Faculty of Archaeology, Ain Shams University, Egypt <b>Conservation Science Approaches of Archival Collections</b>
10:15 - 10:45	Lecture: <b>Dr. Polonca Ropret</b> , Head of Research Institute, Institute for the Protection of Cultural Heritage of Slovenia: <b>Introduction to non-invasive characterisation of cultural heritage: application of vibrational spectroscopy</b>
10:45 - 11:15	Lecture: <b>Dr. Jasna Malešič</b> , Paper Conservator at the National and University Library in Slovenia: <b>Heritage Science Approaches at the National and University Library in Slovenia</b>
11:15 - 11:45	<b>Break</b>
11:45 - 12:45	Lecture: <b>Dr. Klara Retko</b> , Research Institute, Institute for the Protection of Cultural Heritage of Slovenia, <b>Raman spectroscopy for characterisation of cultural heritage</b> Lecture: <b>Ms. Lea Legan</b> , Research Institute, Institute for the Protection of Cultural Heritage of Slovenia <b>Infrared spectroscopy for characterisation of cultural heritage</b>
12:45 - 13:45	<b>Lunch</b>
13:45 - 16:55	Practical work with Raman and FTIR portable equipment (Dr. Klara Retko & Ms. Lea Legan)
16:55 - 17:00	Closing and certificates

**The organization committee (alphabetically in family name):**

- **Mohamed Abdelmaguid** (National Network of Science Museums and Centers, Sci-Her), Egypt
- **Ahmed Ameen** (National Network of Science Museums and Centers, Sci-Her), Egypt
- **Ribio Nzeza Bunketi Buse** (Université Senghor, Alexandria), Egypt
- **Hassan Ebeid** (National Network of Science Museums and Centers. Sci-Her), Egypt
- **Mamdouh Eldamaty** (Ain Shams University), Egypt
- **Rania El-Guindy** (Université Senghor, Alexandria), Egypt
- **Maher Eissa** (Qalam for Knowledge production), Netherlands
- **Gina El-Feky** (Academy of Scientific Research and Technology, ASRT), Egypt
- **Mona El-Naa** (Academy of Scientific Research and Technology, ASRT), Egypt
- **Abdelrazek Elnaggar** (Slovenian-Egyptian Heritage Science Platform, SloveNile), Slovenia
- **Marwa El-Wakil** (Bibliotheca Alexandrina, Bibalex), Egypt
- **Azza Ezzat** (Bibliotheca Alexandrina, Bibalex), Egypt
- **Hossam Hosny** (Faculty of Archaeology, Ain Shams University), Egypt
- **Ahmed Nekshara** (Faculty of Archaeology, Ain Shams University), Egypt
- **El-Sayed Mahfouz** (Kuwait University), Kuwait
- **Asharf Sabry**, Faculty of Archaeology, Ain Shams University), Egypt
- **Matija Strlič** (Slovenian Node, European Research Infrastructure for heritage Science, E-RIHS.si), Slovenia
- **Ivana Štular** (Slovenian Node, European Research Infrastructure for heritage Science, E-RIHS.si), Slovenia