

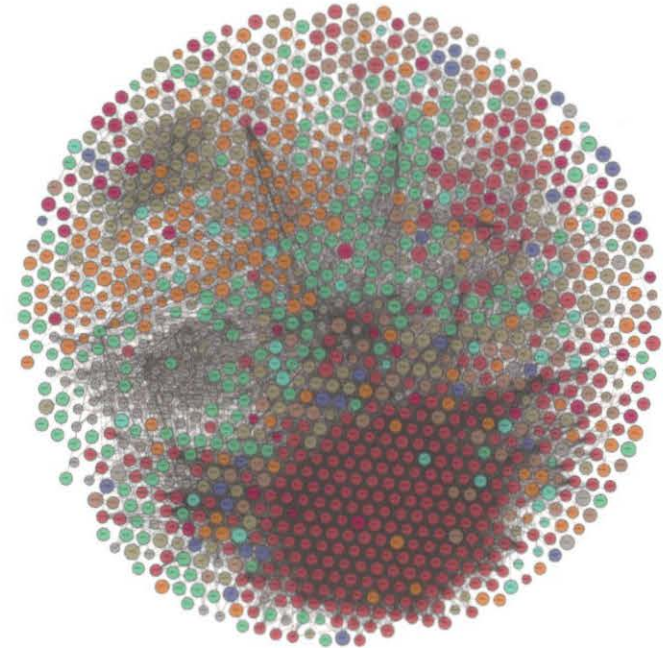
유네스코
디지털
기록유산
컨퍼런스

2nd Inter-regional Conference for the Memory of the World:

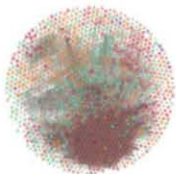
PRESERVING & PROVIDING ACCESS TO DIGITAL HERITAGE

디지털
기록유산의
보존과
접근성 강화

05
|
08
NOV
2019



05-06 NOV Asia Culture Center (ACC) 국립아시아문화전당
07-08 NOV The Grand Hotel Daegu 대구그랜드호텔



2nd Inter-regional Conference for the Memory of the World:

PRESERVING & PROVIDING ACCESS TO DIGITAL HERITAGE

The Linked Open Data Cloud://lod-cloud.net/



INTRODUCTION TO THE CONFERENCE

Digital information is difficult to preserve over longer periods of time. Carriers like hard disks have a short life span, and even if one manages to keep the bits and bytes, the risk that current hard- and software is unable to process the old data is very real. Archives, museums and libraries are acutely aware of these problems, yet they cannot find solutions on their own.

At the same time, advances in digital technology are providing exciting opportunities for memory organizations to digitize, and share their collections and data across borders. This technology can be a catalyst for enhanced collaboration at the institutional, national and international levels, moving towards to objective of the UNESCO Memory of the World Programme of open universal access to our shared documentary heritage.

In this overall context, the aim of this conference is to bring together experts from the UNESCO Memory of the World Committees from the Asia-Pacific, Africa, and Latin America and the Caribbean, to discuss strategies and initiatives for the preservation of, and access to, digital heritage. During the conference a number of important policy guidelines, tools and strategies relating to the preservation of digital documentary heritage will be discussed.

The conference will be arranged around the five thematic areas of the UNESCO Recommendation concerning the Preservation of, and Access to, Documentary Heritage Including in Digital Form (2015) namely: (1) Identification of digital documentary heritage; (2) Preservation of digital documentary heritage; (3) Access to digital documentary heritage; (4) Policy measures for digital documentary heritage; and (5) National and international cooperation.

PROGRAMME

DAY / 05 November
01 / Asia Culture Center, Gwangju

09:00-09:30 **Registration**

09:30-10:00 **Opening remarks**

- Gi Pyo Lee, President, Asia Culture Institute
- Dong-Hak Shin, President, Commemorative Association of the National Debt Redemption Movement
- Kwibae Kim, Chair, Memory of the World Committee for the Asia-Pacific (MOWCAP)
- Fackson Banda, Secretariat Memory of the World (MoW) programme, UNESCO Headquarters

Session 1 **Introduction to the key issues**

Moderator: Andrew Henderson, Secretary-General, MOWCAP

10:00-10:15 **Key Issues for the Preservation of Digital Heritage**

Lai Tee Phang, Chair of the UNESCO MoW Preservation Sub-Committee / Deputy Director of the National Archives of Singapore

Dr Lai Tee Phang will provide an overview of some of the key issues relating to digital heritage preservation, including how the UNESCO Recommendation on Documentary Heritage can provide an important global framework for the preservation of, and access to, digital documentary heritage. Dr Phang will also share an update on the current initiatives of the UNESCO MoW Preservation Sub-Committee.

10:15-10:30 **Coffee Break**

Session 2 Identification of Digital Documentary Heritage

Moderator: Kwibae Kim, Chair, MOWCAP

10:30-10:55 UNESCO-PERSIST Guidelines for the Selection of Digital Heritage for Long-term Preservation

Ingrid Parent, Chair, UNESCO-PERSIST Content Task Force

The UNESCO/PERSIST Guidelines for the selection of digital heritage for long-term preservation (2016) are an overarching starting point for heritage institutions when drafting their own policies on the selection of digital heritage for long-term sustainable digital preservation. This presentation will give an overview of the guidelines and how they can benefit the work of museums, archives and libraries within the national and regional MoW networks.

10:55-11:20 Guidelines for Setting Up a Digital Unification Project

Claire McGuire, Policy and Research Officer, International Federation of Library Associations and Institutions (IFLA)

Libraries and archives throughout the world hold collections and individual collection items that are of great cultural importance to people everywhere. They document the inextricable interconnectedness of human history. The full richness of these collections can often only fully be appreciated when they are brought together, yet traditionally, distance and borders have stood in the way of researchers and other users looking to take a comprehensive view. To address this challenge, IFLA has released its guidelines for setting up a digital unification project. These provide a checklist, and recommendations, for libraries in the planning, delivery, and finalisation of projects to provide digital access to collections across distance and borders.

11:20-11:45 Identification and Preservation of Digital Heritage in China

Huang Lihua, Director of the Department of Technology, National Archives Administration of China

This presentation will provide an overview of the work the National Archives Administration of China is undertaking relating to the production, identification, management, long-term preservation and access of digital record for the digital continuity including digitized paper record as well as born digital records.

11:45-12:00 Panel discussion and question & answer session facilitated by the moderator

12:00-13:00 Lunch

Session 3 Preservation of Digital Documentary Heritage

Moderator: Misako Ito, UNESCO Bangkok

13:00-13:25 Introduction to the Archivemata Open-Source Digital Preservation System.

Justin Simpson, Managing Director at Artefactual Systems Inc

Archivemata is a free and open-source digital preservation system developed by Artefactual Systems in part through funding from UNESCO. This session will present the history of Archivemata and an overview of the system's design, features and technical architecture, as well as relevant case studies.

13:25-13:50 The UNESCO Open Software Heritage Initiative

Fackson Banda, Secretariat Memory of the World (MoW) programme, UNESCO Headquarters

Dr Fackson Banda will provide an overview of the Open Software Heritage Initiative, which aims to preserve and share the source codes of all software programmes that have been giving life to computers since the middle of last century. Over 4 billion unique source code files, including their successive iterations and more than 83 million software projects in all fields are already available from the online archive.

13:50-14:15 The International Internet Preservation Consortium (IIPC) and Preserving Online Digital Heritage on the Web

Youssef Eldakar, Head of Department for the International School of Information Science at the Bibliotheca Alexandrina (BA)

Libraries, archives, and other memory institutions have for long taken on the responsibility towards humanity to preserve documentary heritage. It, therefore, follows that memory institutions have an obligation to archive content on the web just like they have for long been archiving content in the traditional formats. If they did not, and with much about today's human society continually being written about on the web, we risk failing to preserve a significant portion of our collective memory for the generations to come. In this context, this presentation will focus on web archiving as a form of preservation of online digital heritage, focusing on the Bibliotheca Alexandrina's web archiving programs that span a period of 10 years, and are continuing to be developed.

14:15-14:30 Panel discussion and question & answer session facilitated by the moderator

14:30-14:45 Coffee Break

Session 4 Policies and Strategies for Digital Heritage Preservation and Access

Moderator: Dr Ming-Kuok Lim, UNESCO Jakarta

14:45-15:10 Introduction to the Executive Guide on Digital Preservation

Lai Tee Phang, Chair of the UNESCO MoW Preservation Sub-Committee /Deputy Director of the National Archives of Singapore & Robert Buckley, Chair PERSIST Programme Policy Workgroup/ Technical Adviser, The National Archives of UAE, (*in-absenti*)

Dr Phang will share information about the Executive Guide on Digital Preservation that has been developed between the Digital Preservation Coalition (DPC) and UNESCO. The Executive Guide provides practitioners in the memory and heritage institutions, commercial organizations, government bodies and not-for-profit organizations with information to create awareness and rationale to prompt action by senior executives, legislators and budget holders as well as decision and policy makers need to embed digital preservation at the core of every organization.

15:10-15:35 Policies and Strategies for Digital Heritage: Perspectives from Latin America and the Caribbean

Gabriela Andaur, Digital Archivist, National Archives of Chile / Lecturer and researcher, Alberto Hurtado University

Gabriela Andaur currently works as Digital Archivist in the Modernization Project of the National Archives of Chile. She is also a Lecturer in the Information, Library and Archives Management program at Universidad Alberto Hurtado. She has been a consultant for local archival institutions and-between 2015 and 2018- worked at the Hernán Santa Cruz Library of the United Nations Economic Commission for Latin America and the Caribbean. She developed a Digital Preservation Roadmap for the Library and contributed to Implementing LEARN, a Horizon 2020 project for the dissemination of Research Data Management in government agencies and research institutions in the LAC region.

15:35-16:00 Documentary Heritage Access Guidelines for Persons with Disabilities

Alireza Darvishy, Zurich Technological University

Prof Alireza Darvishy has been working with UNESCO to develop the Documentary Heritage Access Guidelines for Persons with Disabilities. These guidelines aim to provide persons with disabilities with access to the digital documentary heritage on an equal basis with other users, and contributing to the implementation of the relevant international normative instruments such as the UN Convention on the Rights of Persons with Disabilities (2006, including the articles linked to the accessibility, access to cultural and political life, education, international cooperation and others). This will be first time the results of this work will be shared.

16:00-16:15 Panel discussion and question & answer session facilitated by the moderator

16:15-16:30 Wrap of day one (Andrew Henderson, Secretary-General, MOWCAP)

End of DAY 1

Participants are invited to a welcome dinner hosted by Mr. Gi Pyo Lee President, Asia Culture Institute.

Session 5 Interregional Cooperation for the Preservation and Safeguarding of Digital Documentary Heritage

Moderator: Dr Mitsuru Haga, Vice-Chair, MOWCAP

09:00-09:15 Interregional Cooperation for the Preservation and Safeguarding of Documentary Heritage

Fackson Banda, Memory of the World (MoW) Focal Point, UNESCO

Dr Fackson Banda will provide an overview of current initiatives of the UNESCO MoW Secretariat for the preservation of documentary heritage, including in digital form, with particular reference to opportunities for cooperation between the different regions. An update will also be given regarding the 2nd Global Policy Forum on Disaster Risk Reduction and Management for Sustainable Preservation of Documentary Heritage scheduled for March 2020.

09:15-10:00 Updates from the Regional MoW Committees: Challenges and Opportunities for Digital Heritage Preservation

- African Regional Committee for Memory of the World (ARCMOW) update: Papa Momar Diop, Vice-President of ARCMOW Executive Board / UNESCO MoW International Advisory Committee (IAC) member.

- Memory of the World Committee for Latin American and the Caribbean (MOWLAC) update: Fernando Osorio-Alarcon, Member Subcommittee of Technology Memory of the World Program

- UNESCO Memory of the World Committee for the Asia-Pacific (MOWCAP) update: Kwibae Kim, Chair of the MOWCAP Bureau & Assistant Secretary-General, Bureau of Science & Culture Korean National Commission for UNESCO.

10:00-10:15 Panel discussion and question & answer session facilitated by the moderator

10:15-10:30 Coffee Break

Session 6 Case Studies of National, Regional and International cooperation

Moderator: Dr Vu Thi Minh Huong, Vice-Chair, MOWCAP

10:30-10:55 Return to Baguia: International Cooperation Project to Provide Digital Access to Baguia Collection using the Online Cultural Collections Analysis and Management System (OCCAMS)

Junran Lei, Centre for Digital Humanities Research, Australia National University (ANU) & Dr Joanna Barrkman, Senior Curator of Southeast Asian & Pacific Arts Department, Fowler Museum at UCLA (*in-absenti*)

The Baguia database contains records for the Baguia Collection objects acquired and photographs taken by Swiss ethnographer, Dr Alfred Bühler in 1935, from Baguia, Portuguese Timor (now Timor-Leste). It also includes film footage taken by his expedition companion, Dr Wilhelm L. Meyer. The Baguia Collection is part of the permanent collection of the Museum der Kulturen Basel, Switzerland. Using the Online Cultural Collections Analysis and Management System (OCCAMS) platform, this important collection has been shared with new audiences in Timor-Leste and across the world. This project was supported by ACC and MOWCAP through the 2018 ACC-MOWCAP Small Grants Programme.

10:55-11:20

Digital Preservation and Access to Memory of the World Collections: Challenges and Opportunities in Samoa

Vaveao Toa, Principal Recordkeeping Officer, Ministry of Education, Sports and Culture, Samoa

This presentation is focused on Samoa's first experience on Digital archives: Preserving and providing access to a Memory of the World Regional collection. During the German colonization in Samoa from 1900-1914 the German Administration created and kept records of their administration activities of this period. This collection is under the custodian of the National Archives and Records Authority of Samoa. This collection has been digitised through a project funded by the German Bunchive through a partnership with Archives New Zealand and Samoa. The Online Digital accessed of the collection is available through Archives New Zealand.

11:20-11:45

Providing Digital Access to joint inscriptions on the Memory of the World Register

Adhie Gesit Pambudi, Head of Domestic and International Cooperation, National Archives of Indonesia

The presentation shall includes the aspect of digital access to documentary heritage that has been inscribed by joint nomination on the international register, including the (2003), Asian-African Conference archives (2015), Indian Ocean Tsunami Archives (2017). The digital preservation of VOC Archives in ANRI is conducted by a project so called DASA: Digital Archives System at ANRI in collaboration with a NGO from the Netherlands, The CORTS Foundation. In 2017, ANRI develop a Digital Repository (E-Depot) that uses OAIS Preference Model as the basis of digital preservation in the institution. This digital repository is projected to preserve the archives with world significance such as Asian-African Conference archives and Indian Ocean Tsunami Archives.

11:45-12:00

Panel discussion and question & answer session facilitated by the moderator

12:00-13:00

Lunch**Session 6****Case Studies of National, Regional and International cooperation**

Moderator: Hezekiel Dlamini, UNESCO New Delhi

13:00-13:25

Developing Semantic Digital Archives for Increasing Access to Memory of the World Collections

Myung Dae Cho, Professor, Seoul National University

Prof. Cho will introduce a new structural theory based on semantic technology that can link MoW collections across national, regional and international borders, thereby enhancing access and international cooperation. This technology can accurately identify a word and arrange it in a variety of relationships to provide abundant affordances for users. This means that it is possible to do so-called "Thing" searches in graph structures, not just "Strings". Prof. Cho will use the example of the online international MoW database to demonstrate the potential of semantic archives.

13:25-13:50

The Preservation of Digital Heritage at the Central Library and Documentation Center of University of Tehran

Susan Asili, Deputy of the Central Library and Documentation Center, University of Tehran

Dr Susan Asili will provide an overview of the digital heritage preservation strategies and software systems at the Central Library and Documentation Center (CLDC) of University of Tehran. The CLDC currently has about 20 million digital files from its sources, with the number increasing every day. The digital documents of the CLDC are loaded into the library software that started with the priority of manuscripts. Currently, the digitized images of more than 10,000 manuscripts (3000000 leaves) are available to researchers and the public through an online databases.

13:50-14:15 | An Overview of the Asia Culture Center (ACC) and ACC Archives

Eunjung Kim, Assistant Director, Research and International Relations Division, Asia Culture Center

Featuring a variety of materials including photos, images, videos, sound files, and documents, ACC Asia Culture Archives consist of various collections, including the Special Collection. The collection is one of the largest archives relating to culture, and covers performances, art events, cultural festivals and more from across Asia. ACC maintains an extensive digital archive and portal to provide access to this important collection. ACC has also been supporting the preservation and access to documentary heritage across the Asia-Pacific through ACC-MOWCAP Grants Programme.

14:15-14:30 | Panel discussion and question & answer session facilitated by the moderator

14:30-14:45 | Coffee Break

14:45-15:45 | Tour of the ACC Exhibitions, Archives and Library Space

End of DAY 2 Buses will leave from the ACC to Daegu City at 15:45. The travel time will be approximately 3.5 hours with an estimated time of arrival at 19:00.

Participants will have dinner around 17:00 then check-in at the hotel after dinner.

DAY
03 / 07 November
Daegu City

09:00-09:30 | Welcoming Remarks from the host

- Kwon Young-jin, Mayor of Daegu City
- Bae Ji Sook, President of Daegu City Council
- Dong-Hak Shin, President Commemorative Association of the National Debt Redemption Movement
- Fackson Banda, Director of the Memory of the World (MoW) Programme Secretariate, UNESCO

Session 7 | Creating access to documentary heritage collections through digitisation

Moderator: Qingyi Zeng, UNESCO Beijing

09:30-09:55 | Digital transformation at Wellcome Collection

Tom Scott, Head of Digital Engagement, Wellcome Foundation

The Wellcome Library is founded on the collection formed by Sir Henry Wellcome (1853–1936), whose personal wealth allowed him to create one of the most ambitious collections of the 20th century. The Library is developing a world-class online resource for the history of medicine by digitising a substantial proportion of its holdings and making the content freely available on the web. The Library's digital collections are growing to include: cover-to-cover books; video and audio; entire archive collections and manuscripts; paintings, prints, drawings, photographs, ephemera and more.

09:55-10:20 | Introducing the National Debt Redemption Movement Digital Archives project

Prof. **Kim Young-Chul**, Co-representative, The Commemorative Association of the National Debt; Dean of the Department of Economics and Finance, Keimyung University

The Archives of the National Debt Redemption Movement were inscribed on the International Memory of the World Register in 2017. The collection is now the focus of a large digital archive project and is an example of how a MoW inscription can be made accessible. The initiative has an emphasise on making the collection to audiences globally, through a program of workshops, seminars, translation of material, digital archives, and cooperation with international institutions.

10:20-10:45 Artificial Intelligence Based Learning for Digital Heritage Archives

Minho Lee, Artificial Brain Research Lab., AI Institute of Technology, Dept. of AI, School of Electronics Engineering, Kyungpook National University, South Korea

The conventional research activities on traditional archives have been dependent on the efforts of the limited number of experts in the various fields. On the other hand, deep learning has been on the rise not only in many professional academic fields but also in industrial areas. Recent breakthroughs have adopted deep learning methods, eventually outperforming the state-of-art algorithms in many engineering applications. Due the advancement of the deep learning technologies and computational capabilities the proposed methods utilize these recent technologies for high-precision data analysis and aims at developing novel engineering solutions to the problem of understanding the traditional archives automatically with minimal intervention of the experts.

10:45 -11:00 Panel discussion and question & answer session facilitated by the moderator**11:00-11:15 Coffee Break****Session 8 Providing Access to MoW Collections through Digital Platforms**

Moderator: Sayed Habibullah, UNESCO Kabul

11:15-11:40 Developing classification for Digitalisation of NDRM documents

Kyung-Nam Kim, Professor, Department of History, Kyungpook National University

Prof Kim's presentation will identify the present condition of the digitalization of UNESCO's Memory of the World by focusing on the Archives of the National Debt Redemption Movement. In doing so, it explains the source of the Archives of NDRM and the distinctiveness of its classification system, and suggests the reasons why the archival approach according to the International Standard ISAD(G) 2nd EDITION is required to deal with digitalization of the Memory of the World.

11:40-12:05 Tuol Sleng Genocide Museum Archives Preservation and Digitization project (TSGMAPDP)

Hang Nisay, Project and Planning Section Chief & Exhibition and Education Program Coordinator Tuol Sleng Genocide Museum, Cambodia

Tuol Sleng Genocide Museum Archives Preservation and Digitization Project (TSGMAPDP) aims to digitize over 400,000 pages of documents of the Tuol Sleng Genocide Museum which were enlisted on the UNESCO World Documentary Heritage List in 2009 (<http://www.unesco.org/new/en/tuol-sleng-genocide-museum-archives>). The project is funded by Korea International Cooperation Agency (KOICA).

12:05-12:30 Digitisation of the Amadou Hampate Ba Foundation

Roukiatou Ba, Director, Amadou Hampate Ba Foundation

Amadou Hampate Ba's scholarly contribution towards elaborating a unified system for the transcription of African languages. This presentation will focus on current project supported by UNESCO to digitize and make accessible a collection of manuscripts for the public.

12:30-12:40 Panel discussion and question & answer session facilitated by the moderator**12:40-13:40 Lunch**

Session 8 Providing Access to MoW Collections through Digital Platforms

Moderator: Tiva Kamran, UNESCO Tehran

13:40-14:05 Preserving and Providing Access to the Imperial Archives of Nguyen dynasty - Challenges and Opportunities in the Digital Age

Nguyen Thu Hoai, Deputy Director of The National Archives Center, Vietnam

The Imperial Archives of Nguyen dynasty are the administrative records of the Nguyen dynasty, the last feudal dynasty in Vietnam (1802-1945). The collection was inscribed on the Asia Pacific Memory of the World Register in 2014 and on the International Memory of the World Register in 2017. The documents have been scientifically arranged for convenient searching. All original documents have been digitized, created database and provided access on the intranet; These documents are written in ancient languages, so the access is limited. Experts on ancient languages are currently making efforts to translate into Vietnamese and English. It is expected in 2020 to provide access to the internet to serve the public.

14:05-14:30 Free and Open Access to Abai's Digital Documentary Heritage

Elmira Salykova, Head of the Management and Marketing Service, National Academic Library of the Republic of Kazakhstan

Many years have passed since the time of Abay, several generations have changed, but his works do not lose their relevance in the present time. Today, the funds of the Kazakhstan National Electronic Library are intensively replenished with Abay's works, books devoted to the work of the Great educator. All these books are presented in full-text version. The National Committee "Memory of the world" of the Republic of Kazakhstan plans to put forward an application for inclusion in the world register of "Memory of the world" of Abay's digital heritage.

14:30-14:55 Digitisation of the Department of Archaeology Yangon Photo Archive Project

Aye Mi Sein, Deputy director, Department of Archaeology and National Museum, Myanmar, **Wai Phyar Soe**, Department of Archeology, Yangon, and **Misako Ito**, UNESCO Bangkok

This project will involve the digitisation of more than 5,000 glass plate negatives taken from 1903 to 1941, depicting monuments, reliefs, paintings and statues associated with the Bagan Archaeological Area and Monuments and other sites across Myanmar. The digitised images will be made available to researchers and the public through an online database. The project has been made possible through generous funding provided by the National Archives of Korea.

14:55-15:10 Panel discussion and question & answer session facilitated by the moderator

15:10-15:25 Coffee break

Session 9 Open Access Software for Documentary Heritage

Moderator: Andrew Henderson

15:25-15:50 Introduction to the Atom Open Source Software Application

Justin Simpson, Managing Director at Artefactual Systems Inc

AtoM stands for Access to Memory is a web-based, open source application for standards-based archival description and access. The application is multilingual and multi-repository. It was first commissioned by the International Council on Archives (ICA), with support from UNESCO, to make it easier for archival institutions worldwide to put their holdings online using the ICA's descriptive standards, the project has since grown into an internationally used community-driven project. Artefactual is the lead developer of AtoM.

15:50-16:15 Providing Access to Documentary heritage using Open Source Software

Daejin Ahn, CEO, ArchiveLab Inc

ArchiveLab Inc has been undertaking a number of projects using open sources software (Omeka and Atom). This presentation will look at the use of open source software such as the Atom, Archivematica, Omeka in Korea as a means to providing access to digital collection, especially in the private sector. This presentation will provide MoW stakeholders with an overview of the different open source collection management systems, and how they have been applied by memory organisations in the Korean context. In 2017 ACC supported MOWCAP to create a database of inscriptions from the Asia-Pacific (MOWCAP Archive). This work was undertaken by the Archives Lab team using Omeka open source software. The Archives Lab is using open source software (Omeka and Atom) to provide access to digital collections.

16:15-16:40 Cataloguing, Indexing and digitization of Archaeological Documents and Reports of Iran (from 1908 to 1941)

Fariba Farzam, Director, Documentation Center and Library of Research Institute of Cultural Heritage and Tourism (RICHT), Member of Iran MoW National Committee and Babak Mashhadi, Chairman, Telia Information Technology Company

The Documentation Centre of Research Institute of Cultural Heritage and Tourism in Iran has digitized more than 2,000 pages and made accessible on a web-based platform. The platform is designed based on standards such as ISAD (G), ISAAR and etc. for exchange of data of Iran archaeology activities with other countries engaging to the matter and making possible in the future a joint nomination of documentary heritage through international digital platforms. The MOWCAP-ACC grant has supported part of this project.

16:40-16:55 Panel discussion and question & answer session facilitated by the moderator

16:55 -17:10 Summary of the conference results and next steps

Misako Ito, UNESCO Bangkok and Fackson Banda, UNESCO Paris

17:10 -17:15 Closing remarks

Kwibae Kim, Chair, Memory of the World Committee for the Asia-Pacific (MOWCAP)

End of DAY 3 Participants are invited to a farewell dinner hosted by the Commemorative Association of the National Debt Redemption Movement (TBC).

DAY 04 / 08 November Site tours

09:30-12:00 Visit to the Archives of the National Debt Redemption Movement, The Memorial Museum, and National Debt Redemption Movement Memorial Park.
(http://www.gukchae.com/eng2/sub03/sub_0301.aspx)

12:00-13:00 Lunch

13:00-17:00 Optional tour to Haeinsa Temple:
World Heritage: <https://whc.unesco.org/en/list/737>
Memory of the World: <https://mowcaparchives.org>

End of Conference