2nd INTERNATIONAL CONFERENCE on Global Issues of Environment & Culture

www.shap-conference.com

17th-19th September 2021

DIGITAL CONGRESS

SCIENTIFIC PROGRAM

ORGANISED BY:

HELLENIC REPUBLIC MINISTRY OF TOURISM
Hunan University
University of the Aegean
DELPHI MUNICIPALITY

UNDER THE AUSPICES:

HELLENIC DEMOCRACY

UNDER THE AUSPICES:

CENTRAL GREECE

ORGANIZATIONAL SUPPORT:

ZITA CONGRESS

Omirou 29, Peta Saronikou, 19001, E-mail: s.si@zita-congress.gr, www.zita-group.com, Tel.: +30 22994 40962
WELCOME NOTE

To promote mutual interest in cultural and environmental issues on a global scale, the University of the Aegean, Greece and Henan University, China as part of a research & educational agreement are announcing the 2nd jointly organized conference on Global issues of Environment & Culture.

The Sino-Hellenic International Conference (SHIC) is a series of international conferences hosted in China and Greece alternatively. On 30th June 2019, the 1st Conference was held in Kaifeng, Henan University, to inaugurate the newly established Research Centre for Hellenic Civilization.

The 2nd SHIC on Environment & Culture was planned to take place in Delphi on 17-19 September 2021, but finally it is made digitally due to the latest facts regarding pandemics. However, the present online event due to the advanced technology offers to participants from all over the world to participate, safely, easily and financially affordably. Even though the 2nd SHIC will be a digital Conference, a remarkable Opening Ceremony has been organized with inaugurations from Scientific Organizers – Organizing Institutions, Patronage & Governmental Officials, Academicians, Ambassadors and Local Authorities.

The 2nd International Conference is one of the activities of the Project “Sino-Hellenic Academic Project” of the Research Center of Hellenic Civilization (Henan Univ, Kaifeng), the Research Center of Yellow River Civilization in Greece (Univ. of the Aegean), and the Collaborative Innovation Center on Yellow River Civilization and Sustainable Development. Research teams from HENAN, AEGEAN Universities, and Other Scholars & Partner Institutions work together to complete this Project. It will be beneficial for experts and students over the entire World together with Greece and China, to create a cradle of global activities in research, education, and cooperation on Environment & Cultures interaction in the past.

Parallel to the conference and for first time a Cultural event is taking place digitally (due to pandemic) which refers to reviving of ecumenical values of Delphic Spirit through Art, Culture & Science/Technology.
WELCOME NOTE

Last but not least, the Conference is taking place during 2021 – the Year of Culture and Tourism between Greece and China. A Memorandum of Cooperation for the Organization of the Year of Culture and Tourism in 2021 was signed by between the two countries and sustainability through cultural heritage will be one of the major sectors of the Memorandum which is also one of the Conference’s major goals.

The 2nd Sino-Hellenic International Conference welcomes contribution on any topics related to the environment and cultures globally.

For the Organizing Institutions,

Prof. Ioannis Liritzis          Prof. Miao Changhong
University of the Aegean        Henan University
(contact: ioannis.liritzis@euro-acad.eu; liritzis@aegean.gr; chhmiao@henu.edu.cn)
INTERNATIONAL CONFERENCE on Global Issues of Environment & Culture
17th-19th September 2021

ORGANIZED BY

Key Institute for Yellow River Civilization & Sustainable Development
Collaborative Innovation Center for Yellow River Civilization
Lab. of Yellow River Cultural Heritage
Research Center for Hellenic Civilization
International Research Center for Ancient Civilizations

Research Center for Yellow River Civilization
Laboratory of Archaeometry
Laboratory of Environmental Archaeology & Preventive Conservation
Message from the Editor-in-Chief
I encourage you to contribute a research or comprehensive review article for consideration for publication in *Sustainability*, an international open access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full articles) and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

Author Benefits

- **Open Access** Unlimited and free access for readers
- **No Copyright Constraints** Retain copyright of your work and free use of your article
- **Impact Factor 3.251 (2020 Journal Citation Reports®)** JCR - Q2 (Environmental Studies/Environmental Sciences)
- **Thorough Peer-Review**
- **Coverage by Leading Indexing Services** SCIE-Science Citation Index Expanded (Clarivate Analytics), SSCI-Social Sciences Citation Index (Clarivate Analytics), Scopus (Elsevier), Inspec (IET)
- **No Space Constraints, No Extra Space or Color Charges** No restriction on the length of the papers, number of figures or colors
- **Discounts on Article Processing Charges (APC)** If you belong to an institute that participates with the MDPI Institutional Open Access Program
- **CiteScore 2020 (Scopus) 3.9** CiteScore - Q1 (Geography, Planning and Development/Environmental Science (miscellaneous)), Q2 (Energy Engineering and Power Technology/Management, Monitoring, Policy and Law/Renewable Energy, Sustainability and the Environment)
Aims and Scope

Our aim is to encourage experts to publish their experimental, computational and theoretical research on sustainability. This encompasses topics related to social sciences, natural and applied science and engineering, in order to enable the application and development of sustainability.

Subject Areas

- Defining, quantifying, measuring, and monitoring sustainability
- Environmental management and conservation
- Resources and sustainable utilization
- Climate change
- Sustainability of energy resources
- Sustainable regional planning and development
- Sustainable economic development and business management
- Sustainable supply chains, logistics, and transportation
- Food consumption and safety
- Sustainable agriculture
- Sustainability, biodiversity and conservation
- Education for sustainability
- Sustainable tourism, culture preservation, and heritage conservation
- Relation of geographical changes and social development to sustainability
- Psychological aspects of sustainability and sustainable development
- Health and sustainability
- Hazards and sustainability
- Sustainable materials
LOCAL ORGANIZING COMMITTEE

- Prof. Ioannis Liritzis [Coordinator]
- Dr. Asimina Vafiadou [Administrative issues]
- Dr. Pantelis Volonakis [Tech support]
- Maria Bratitsi [Administrative issues]
- Alexander Westra [Chinese issues + web]
- Apostolos Vlachos [Digital Archaeology and Cultural Heritage, tech support]
- Zita Congress, Athens

ADVISORY SCIENTIFIC COMMITTEE

- Prof. Niki Evelpidou (Dept. of Geology and Geoenvironment, University of Athens, Greece)
- Prof. Changhong Miao (Henan University, School of Environment & Planning, China)
- Prof. Zhang Lidong (Henan University, College of History & Archaeology, China)
- Dr. Elena Korka (Honorary Ephor of Dept. of Antiquities, Ministry of Culture, Greece Director of Blue Shield UNESCO Branch, Greece)
- Prof. Ioannis Liritzis (Henan University, China; University of the Aegean, Greece; European Academy of Sciences & Arts, Austria)
- Prof. Christofilis Maggidis (Mycenaean Foundation, Greece & Dickinson College, USA)
- Prof. Gregory Tsokas (Aristotle University of Thessaloniki, Dept. of Geology, Greece)
- Dr. George Dimitriadis (Instituto Terra e Memoria & CGEO-Centre of Geoscience, Group of Quaternary and Prehistory, University of Coimbra and OBSERVARE – Dept. Geopolitics and International Relations UAL – Autonomous University of Lisbon, Portugal)
SCIENTIFIC COMMITTEE

- Dr. Cai Shuhui (IGG-CAS, China)
- Dr. Dimitriadis George (Instituto Terra e Memoria & CGEO-Centre of Geoscience, Group of Quaternary and Prehistory, University of Coimbra, and OBSERVARE – Dept. Geopolitics and International Relations UAL- Autonomous University of Lisbon, Portugal)
- Prof. Efstratiou Nikolas (Aristotle University of Thessaloniki, Dept. of History & Archaeology, Greece)
- Prof. Evelpidou Niki (Dept. of Geology and Geoenvironment, University of Athens)
- Prof. Guerci Antonio (Cattedra UNESCO “Antropologia della Salute e Sistemi di Cura, Università degli Studi di Genova, Italy)
- Prof. Hatzopoulos John (Emeritus Prof. Dept. of Environment, Uni. of Aegean, Greece)
- Prof. Hou Weidong (Henan University, College of History & Archaeology, China)
- Prof. Iliopoulos Ioannis (University of Patras, Dept. of Geology, Greece)
- Prof. Kassianidou Vasiliki (University of Cyprus, Department of History and Archaeology, Cyprus)
- Prof. Korka Eleni (Honorary Ephor of Dept. of Antiquities, Ministry of Culture, Greece, Director of Blue Shield UNESCO Branch, Greece)
- Prof. Liritzis Ioannis (co-Coordinator of SHAP, Archaeometry, Greece/China)
- Prof. Maggidis Christofilis (Mycenaean Foundation, Greece & Dickinson College, USA)
- Prof. Papatheodorou George (Uni. of Patras, Dept. of Geology, Greece)
- Prof. Vitsilaki Chryssi (Rector, University of the Aegean, Greece)
- Dr. Sakellariou Dimitris (National Center for Marine Research, Athens, Marine Geologist, Greece)
- Prof. Seglie Dario (CeSMAP & Department of Museology, University of Turin, Italy)
- Prof. Stefanakis Manolis (University of the Aegean, Archaeology, Greece)
- Prof. Tsokas Gregory (Aristotle University of Thessaloniki, Dept. of Geology, Greece)
- Prof. Wang Wei (CASS, Henan University, Archaeology, China)
- Prof. Wei Jiyin (Henan University, College of History & Archaeology, China)
- Prof. Zacharias Nikolaos (Uni. of Peloponnese, Dept. of History, Archaeology & Management of Cultural Resources, Greece)
- Prof. Zerefos Christos (Academy of Athens, Gen. Secretary-Academician, Greece)
- Prof. Zhang Lidong (Henan University, College of History & Archaeology, Greece)
- Prof. Zouros Nikos (University of the Aegean, Dept. of Geography, Greece)
Where Advanced Electron Microscopy meets Cultural Heritage

Transmission Electron Microscopy Service Facility for Unique Characterization of Artefacts and Ancient Materials

Studies of Cultural Heritage materials are usually focused towards the characterization of corrosion products for the better conservation of artefacts, the determination of production technologies and the identification of raw materials used in the production of pigments, glass, decorated pottery, metals, etc. To assist the above issues, the introduction of advanced Transmission Electron Microscopy (TEM) techniques aims to uniquely characterize Cultural Heritage artefacts and archaeological materials.

The facility requires micro-sampling and provides results within a turnover time of 4-6 weeks.


TEM Characterization:
- Metals | Alloys
- Ceramics | Glass
- Pigments
- Minerals
- Mortars

BRING YOUR SAMPLES

ART E SOLUTIONS aims at providing specialized measurements for the unique characterization of artefacts and works of art. Each measurement, which serves as the certificate of the object, helps understand its production technology and provenance. The services are mainly oriented to academic, research units and museums and include a detailed report that can be used as a publication item.
What TEM microscopy can do for cultural heritage materials analysis?

Quasi non destructive technique: works with micro samples with size from 1x1 µm² (FIB prepared) to several mm² (metals, ceramics, glass, pigments)

High resolution image and electron diffraction (ED) from very small areas (e.g. 10x10 nm)

EDS X-Ray analysis from very small areas ~ 20 nm
Element valence identification (e.g. Fe⁺²⁺³, Mn⁺²⁺⁴⁺, Sb⁺³⁺⁵⁺, Co⁺²⁺³⁺⁷⁺, Cu⁺²⁺ etc)
Electron Energy Loss Spectroscopy (EELS) analysis for light elements from very small areas ~ 20 nm
Trace element identification and mapping (up to few ppm)

3D precession diffraction tomography from very small areas ~ 50 nm to reconstruct detailed crystal structure of any phase in metals, ceramics, glass etc.

TEM orientation imaging and crystal phase mapping from very small-large down to 1nm scale. Possibility of crystalline / amorphous maps

info@artesolutions.eu Tel: 0030-2721128104
**SCIENTIFIC PROGRAM**

*Friday, 17th September 2021*

10:00-11:00  Registrations

**11:00-12:20** Opening Ceremony (Online)

*Chair: Prof. Ioannis Liritzis (Univ. of the Aegean / Henan Univ. / Eur. Acad. Sci. Arts)*


**Scientific Organizers - Organizing Institutions**

11:00-11:05  Prof Ioannis LIRITZIS (University of the Aegean & Henan University)

11:05-11:10  Prof. Chrysi VITSILAKI, The Rector of the University of the Aegean

11:10-11:15  Prof. Chunpeng SONG, The President of Henan University

11:15-11:20  Prof Changhong MIAO (Henan University)

**Patronage-Governmental Officials**

11:20-11:25  Dr Lina MENDONI, The Minister of Culture & Sports

11:25-11:30  Mr Vasilis KIKILIAS, The Minister of Tourism

11:30-11:35  Prof. Angelos SYRIGOS, The Deputy-Minister of Education & Religious Affairs

11:35-11:40  Mr. Qiang WANG, Charge d’ Affairs, Minister Councillor (Chinese Embassy, Athens)

**Academicians**

11:40-11:45  Prof. Klaus MAINZER, The President of the European Academy of Sciences & Arts

11:45-11:50  Prof. Christos ZEREFOS, The Secretary General, Academy of Athens

**Local Authorities**

11:50-11:55  Dr Ioannis BOUGAS, Phokis Province Member of Parliament Representative

11:55-12:00  Mrs Jinhua HUO, The Deputy Governor of Henan Province

12:00-12:05  Mr. Hengzhen XU, vice director of Henan Provincial Department of Education

12:05-12:10  Mr Fanis SPANOS, The Regional Governor of Central Greece Province

12:10-12:15  Mr Panagiotis TAGKALIS, The Mayor Municipality of Delphi
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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</table>
| 12:20-12:40  | TRAVELLING PLANTS, TRAVELLING STORIES: CONCEPTUALIZING PLANT TRANSPLANTATION IN THE GRECO-ROMAN WORLD – invited lecture  
Dr Laurence Totelin (Cardiff University, UK) |
| 12:40-13:00  | DYNAMICALLY CHANGING ENVIRONMENT AND HUMAN RESPONSE - invited lecture  
Dr Dimitrios Sakellariou (Hellenic Centre for Marine Research, Greece) |
| 13:00-13:20  | THE ROLE OF CULTURAL NGOs AND THE SILK ROADS NETWORK – invited lecture  
Dr Elena Korka (Ministry of Cultural and Sport, Greece / Hellenic Committee of the Blue Shield, Greece) |
Prof Niki Evelpidou (Nat. Kapodistrian University of Athens, Greece) |
| 13:35-13:45  | Discussion                                                              |
| 13:45-15:00  | Noon Break                                                              |
| 15:00-15:15  | THE FEATURES ART AND CULTURAL OF BUDDHIST SCULPTURE IN THE PÂLA PERIOD  
Zhang Lingyan (Jiangsu University, China) |
| 15:15-15:30  | FROM SACRED TO SECULAR: RESEARCH ON CHINESE CHRISTIAN PAINTING IN THE REPUBLIC OF CHINA  
Hou Guanyin (Shanghai Academy of Fine Arts, China) |
| 15:30-15:45  | FROM SIREN TO KALAVINKA: THE SPREAD OF THE IMAGE OF HUMAN AND BIRDS’ COMBINATION  
Xi Jing (ECNU-East China Normal University, China) |
15:45-16:00  A HISTORICAL STUDY OF EARLY SINO-INDIAN BUDDHIST PLANT PATTERNS – EXEMPLIFIED BY LOTUS AND HONEYSUCKLE PATTERNS
Zhang Jing (ECNU-East China Normal University, China)

16:00-16:15  MONKS, MOUNTAINS AND MONASTERIES: SACRED BUDDHIST LANDSCAPE OF THE EASTERN DECCAN
Shrikant Ganvir (Deccan College Post Graduate and Research Institute, India)

16:15-16:30  RELIGIOUS AND ECONOMICAL ASPECTS OF THE HISTORY OF FLUVIAL ARCHAEOMETALURGICAL ACTIVITY IN PROVINCE OF BRESCIA, ITALY
Gianfranco Massetti (Historian, Rovato (Bs), Italy)
Georgios Dimitriadis (OBSERVARE- Autonomy University of Lisbon, Portugal; University of Coimbra, Portugal; ITM-Institute Land e Memory, Mação, Portugal)

16:30-16:45  THREE CASES ON THE ORIGIN OF CENTRAL ASIAN VISUAL ELEMENTS SEEN IN TANG DYNASTY
Zhang Tongbiao (Jiangsu University, China)

16:45-17:00  CULTURAL HERITAGE RECORDING PROJECT
Sheng Su (IFASE-International Foundation for Arts Sciences and Education, USA)

17:00-17:15  Discussion

17:15-17:30  Coffee Break

17:30-18:45  SKYSCAPES IN ANCIENT CULTURES
Chairs: Prof. Giulio Magli (Milano Univ., Italy) & Dr Themis Dallas (Univ. of Thessaly, Greece)

17:30-17:45  SKYSCAPE IMPACT TO CULTURAL ASTRONOMY
Vlachos A.1 and Liritzis I.1,2
1University of the Aegean, Greece, 2 Univ. of the Aegean / Henan Univ./ Eur. Acad. Sci. Arts)

17:45-18:00  STARS, THE FIRMANENT AND SKYSCAPES OF LIGHT: A STUDY OF THE TERMS xA bA.s AND xA Ax.s. IN THE PYRAMID TEXTS AND IN THE COFFIN TEXTS
Alicia Maravelia (Hellenic Institute of Egyptology)
ORGANISED BY: & People’s University of Athens, Hellas)

SCIENTIFIC PROGRAM

Friday, 17th September 2021

18:00-18:15 THE ASTRONOMICAL HOROLOGION & TOWER OF THE WINDS (ATHENS): A FIRST ARCHAEOASTRONOMICAL STUDY VIA GIS-BASED VIRTUAL RECONSTRUCTION
Vlachos A.* and Liritzis I.1,2
1University of the Aegean, Greece, 2Univ. of the Aegean / Henan Univ./ Eur. Acad. Sci. Arts)

ON-LINE POSTER PRESENTATIONS

18:15-18:30 PREHISTORIC LUNISOLAR OBSERVATORY AND PAINTED ANNUAL SOLAR CALENDAR AS PART OF AN ARCHAEOASTRONOMICAL PARK IN THE VALLEY OF THE SMOLSKA RIVER NEAR THE VILLAGE OF BAYLOVO, SOFIA REGION, BULGARIA
Maglova P.*, Spasova M.2, Aleksova D.3 & Stoev A.1
1(Space Research and Technology Institute, Bulgarian Academy of Sciences, Bulgaria 2Institute of Philosophy and Sociology, Bulgarian Academy of Sciences, Bulgaria 3International Business School, Bulgaria)

18:30-18:45 ANALYSIS OF THREE-DIMENSIONAL SPATIAL STRUCTURES IN ARCHAEOASTRONOMY: 3D MODEL OF THE ROCK-CUT MONUMENT «BELINTASH», BULGARIA
Ognyanov O.*, Maglova P. & Stoev A.
(Space Research and Technology Institute, Bulgarian Academy of Sciences, Bulgaria)

18:45-19:00 DEVELOPMENT OF THE ROCK-CUT CULTURE IN THE REGION OF THE EASTERN RHODOPES, BULGARIA AND SKYSCAPE IMPACT ON THE CULT-ARCHITECTURAL CHARACTER OF THE MONUMENTS
Spasova M.1, Maglova P.2 & Stoev A.2
1Institute of Philosophy and Sociology, Bulgarian Academy of Sciences, Bulgaria 2Space Research and Technology Institute, Bulgarian Academy of Sciences, Bulgaria
## SCIENTIFIC PROGRAM

### Friday, 17th September 2021

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<th>Time</th>
<th>Event</th>
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<tr>
<td>19:00-19:15</td>
<td><strong>ANALYSIS ESTIMATION OF THE ASTROCLIMATE IN THE ENEOLITHIC</strong></td>
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<td><strong>ACCORDING TO PALEOCLIMATIC DATA FROM BULGARIAN CAVES AND</strong></td>
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<td><strong>OBSERVATIONAL EFFICIENCY OF PREHISTORIC OBSERVATORIES FROM THIS</strong></td>
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<td><strong>EPOCH</strong></td>
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<td><em>Stoev A.</em>, <em>Shopov Y.</em>, <em>Maglova P.</em>, <em>Ognyanov O.</em>, <em>Raykova L.</em> &amp;</td>
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<td></td>
<td><em>Kostov M.</em></td>
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<tr>
<td></td>
<td>1*Space Research and Technology Institute, Bulgarian Academy of Sciences, Bulgaria</td>
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<tr>
<td></td>
<td>2Sofia University “St. Kliment Ohridski”, Bulgaria</td>
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<tr>
<td>19:15-19:30</td>
<td>Discussion</td>
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<td>19:30-19:45</td>
<td><strong>Coffee Break</strong></td>
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<td>19:45-21:00</td>
<td><strong>Hellenic-Chinese - EASA Cultural Event Initiative</strong></td>
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<td><em>Chair: Prof Ioannis Liritzis Univ. of the Aegean / Henan Univ./ Eur. Acad. Sci. Arts</em></td>
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<tr>
<td>19:45-20:00</td>
<td>Greetings by Prof. Violeta Dinescu, Dean of Class III (Arts) European Academy of Sciences &amp; Arts &amp; Introduction by Prof. Ioannis Liritzis “The European Delphic Intellectual Movement Initiative” (European Academy of Sciences &amp; Arts)</td>
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<tr>
<td>20:00-20:10</td>
<td>Video from Delphic Festival /Delphiques Fetes 1927 with a 3D reconstruction of Delphi Sanctuary</td>
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<td>20:10-20:30</td>
<td>Video cultural presentation from China-Martial arts, dance etc</td>
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<tr>
<td>20:30-20:50</td>
<td>Prof Kyriakos Efstathiou (Cyprus Univ. of Technology &amp; Aristotle Univ of Thessaloniki) “When ancient Pythian Games should be performed in the present era through the Antikythera Mechanism”</td>
</tr>
<tr>
<td>20:50-21:00</td>
<td>Apollonian Paean from the Liturgy of Orpheus by Greek musician and composer Yannis Markopoulos (1994)</td>
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## Saturday, 18th September 2021

*Chair: Prof Ioannis Liritzis (Univ. of the Aegean / Henan Univ./ Eur. Acad. Sci. Arts)*

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<th>Time</th>
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<tbody>
<tr>
<td>09:00-09:20</td>
<td><strong>50,000-YEAR OF HUMAN REACTION TO ENVIRONMENTAL CHANGE IN NEW GUINEA</strong></td>
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<td><strong>– invited lecture</strong></td>
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<td><em>Glen R. Summerhayes (Archaeology, Otago University, New Zealand)</em></td>
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</tbody>
</table>
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<table>
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<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>09:20-09:40</td>
<td>DIRECT DATING OF CHINESE IMMOVABLE CULTURAL HERITAGE – invited lecture</td>
<td>Robert G. Bednarik (International Center of Rock Art Dating, Hebei Normal University, China &amp; Convener, International Federation of Rock Art Organizations (IFRAO), Australia)</td>
</tr>
<tr>
<td>09:40-10:00</td>
<td>IT’S NOW OR NEVER: CHANGING CULTURES AND THE INVESTIGATION OF INDIGENOUS ASTRONOMICAL SYSTEMS – invited lecture</td>
<td>Wayne Orchiston¹* and Darunee Lingling Orchiston²</td>
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<td>¹National Astronomical Research Institute of Thailand, and Centre for Astrophysics, University of Southern Queensland, Australia ²Independent scholar, Mae Taeng, Thailand</td>
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<tr>
<td>10:00-10:20</td>
<td>LONG DISTANCE RELATIONSHIP WITH THE MEDITERRANEAN WORLD? GOLD BEECH-NUT PENDANTS FOUND IN NORTHWEST CHINA AND THE EURASIAN STEPPE (8TH-3RD CENTURY BCE) – invited lecture</td>
<td>Yan Liu¹*, Yang Junchang¹, Yu Jianjun², Yongying Ma³</td>
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<td>¹Institute of Culture and Heritage, Northwestern Polytechnical University, China ²Xinjiang Institute of Cultural Heritage and Archaeology, China ³Shaanxi Academy of Archaeology, China</td>
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<tr>
<td>10:20-11:35</td>
<td>RECONSTRUCTING THE PAST AT VERGINA – AEGAE</td>
<td>Chairs: G.N. Tsokas (Aristotle University of Thessaloniki, Greece) &amp; Prof. Zhen Qin (Henan University, China)</td>
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<tr>
<td>10:20-10:35</td>
<td>3D MAPPING AND MODELING STUDIES IN THE ARCHAEOLOGICAL SITE OF VERGINA</td>
<td>Petros Patias*, Charalampos Georgiadis, Vasileios Tsioukas, Dimitrios Kaimaris (The Aristotle University of Thessaloniki, Greece)</td>
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<tr>
<td>10:35-11:00</td>
<td>VERGINA ARCHAEOLOGICAL SITE: INTERPRETATION OF THE ARCHAEOGEOPHYSICAL PROSPECTION RESULTS</td>
<td>Tsokas G. N.¹∗, Drougou S.², Saatsoglou-Paliadeli Ch². ¹Laboratory for Exploration Geophysics, Aristotle University of Thessaloniki, Greece ²Dept. of Archaeology, Aristotle University of Thessaloniki, Greece</td>
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Saturday, 18th September 2021

10:50-11:05 STAGING DEATH IN 4TH C. BC MACEDONIA: COMMEMORATION AND IDENTITY NEGOTIATION STRATEGIES AT AEGAE (VERGINA)
Kyriakou A. (Aristotle University of Thessaloniki, Greece)

11:05-11:20 REVEALING THE URBAN PLANNING AND LOCATING PUBLIC BUILDINGS OF ANCIENT CITIES IN N. GREECE BY GEOPHYSICAL PROSPECTION
Tsokas G.N.¹*, Stratouli G².
¹Laboratory of Exploration Geophysics, Aristotle University of Thessaloniki, Greece
²Ephoria of Antiquities of Kilkis, Ministry of Culture and Sports, Greece

11:20-11:35 ROYALTIES AT THE AGORA OF VERGINA-AEGAE
Paliadeli C. (Dept. of Archaeology, Aristotle University of Thessaloniki, Greece)

11:35-11:50 Discussion & Coffee Break

11:50-12:05 NAVAL HISTORY AND TEXTILE ARCHAEOLOGY: THE SAILS OF THE ANCIENT RHODIAN NAVY
*Stefanakis M.I., Spantidaki S. & Mpardanis I. (University of the Aegean, Greece)

12:05-12:20 LYKION: A CASE STUDY FOR MEDICINES IN ANTIQUITY
Papageorgiou M.¹”, Boura V.¹”, Brecoulaki H.¹, Palles D.², Kallintzi K.³, Kamitsos E.I.²
¹National Hellenic Research Foundation, Greece
²National Hellenic Research Foundation, Theoretical and Physical Chemistry Institute, Greece
³Xanthi Ephorate of Antiquities, Greece
ORGANISED BY:

SCIENTIFIC PROGRAM

Saturday, 18th September 2021

12:20-12:35  THE CONTRIBUTION OF INFORMATION TECHNOLOGIES TO THE PROTECTION OF WORLD CULTURAL AND NATURAL HERITAGE MONUMENTS: THE CASE OF ANCIENT PHILIPPI, GREECE
Kalliopi Kravari*, Dimitrios Emmanouloudis¹, Elena Korka² & Aglaia Vlachopoulou³
¹UNESCO Chair on Conservation and Ecotourism of Riparian and Deltaic Ecosystems, International Hellenic University, Greece
²Chair Hellenic Committee of the Blue Shield, Greece
³International Hellenic University, Greece

12:35-12:50  NATURAL AND ANTHROPOGENIC DAMAGE IN THE ARCHEOLOGICAL SITES OF KYMISSALA, RHODES
Kalogeropoulos K. and Stefanakis M.I., University of the Aegean, Greece

12:50-13:05  DIGITAL MYSTRAS: AN APPROACH TOWARDS UNDERSTANDING THE USE OF AN ARCHEOLOGICAL SPACE
*Panagiotidis V.V., Zacharias N., University of the Peloponnese, Greece

13:05-13:20  MONITORING THE ENVIRONMENTAL CONDITIONS IN SOME SELECTED MUSEUMS AND THEIR ROLE IN DETERIORATION OF MUSEUM TEXTILES IN EGYPT
O. Abdel-Kareem¹, S.H. Samaha², K. El-Nagar², D.M. Essa², H.E. Nast³
¹Cairo University, Egypt,
²National Institute for Standards, Egypt
³National Research Center, Egypt

13:20-13:35  THE PRESERVATION OF CULTURAL HERITAGE IN A CHANGING ENVIRONMENT
Manti P.* & Anagnostou M.²,¹
¹Department of Environment, Ionian University, Greece
²IERSD, National Observatory of Athens, Greece

Karapanagiotis, I.
University Ecclesiastical Academy of Thessaloniki, Greece

13:50-14:00  Discussion
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<td>14:00-14:30</td>
<td>Noon Break</td>
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<td>14:30-16:30</td>
<td>ENVIRONMENTAL ARCHEOMETRY &amp; ANCIENT TECHNOLOGIES</td>
<td>Chairs: Prof. Manolis Stefanakis (University of the Aegean, Greece) &amp; Prof. Miao Changhong (Henan University, China)</td>
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<td>14:30-14:50</td>
<td>THE INTERDISCIPLINARY STUDY OF ANCIENT COPPER PRODUCTION IN THE MINING DISTRICTS OF THE TROODOS MOUNTAINS, CYPRUS – invited lecture</td>
<td>Vasiliki Kassianidou, University of Cyprus, Cyprus</td>
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| 14:50-15:05  | RECIPES FOR PIGMENT MANUFACTURING IN POST-BYZANTINE PAINTING MANUALS | Mastrotheodoros G.P.¹,²,³*, Beltsios K.G.².  
²University of West Attica, Greece  
³National Technical University of Athens, Greece  
³NCSR “Demokritos”, Agia Paraskevi, Greece |
| 15:00-15:20  | CHARACTERIZATION OF THE OBSIDIAN USED IN THE CHIPPED STONE INDUSTRY IN KENDALE HECALA | Muşkara Ü.*, Konak A.  
Kocaeli University, Turkey |
| 15:20-15:35  | DIGITAL DEFORESTATION: DTM GENERATION AT ARCHAEOLOGICAL SITES WITH IMAGE-BASED MODELING | Howland M.D.¹*, Tamberino A.¹, Liritzis I.², & Levy T.E¹.  
¹University of California San Diego, USA  
²University of the Aegean, Greece |
15:35-15:50  ON THE OSL, IRSL AND TA-OSL SIGNALS IN LIMESTONES: CONTRIBUTION AND POSSIBLE IMPLICATIONS TO THE ANCIENT STONE STRUCTURE DATING
Vafiadou A. 1*, Malletzidou L. 2, Sfamba I. K. 3, Kitis G. 3, Liritzis I. 1, 4, 5, Polymeris G. S. 6
1 Laboratory of Archaeometry, Department of Mediterranean Studies, University of the Aegean, Rhodes, Greece
2 Solid State Section
3 Nuclear Physics Laboratory, Physics Department, Aristotle University of Thessaloniki, Thessaloniki, Greece
4 Henan University, Institute of Capital Civilization and Cultural Heritage, China
5 European Academy of Sciences & Arts, Salzburg
6 Institute of Nanoscience and Nanotechnology, NCSR “Demokritos”, Ag. Paraskevi, Greece

15:50-16:05  THE SOUTHEAST ASIAN LEAD ISOTOPE PROJECT (SEALIP): PREHISTORIC COPPER-BASE METAL EXCHANGE NETWORKS AT AND BEYOND CHINA’S SOUTHERN FRONTIER
T. O. Pryce
National Centre for Scientific Research, France

16:05-16:20  CHINESE PORCELAIN (CELADON) ON THE WEST OF THE SILK ROAD IN THE 14TH CENTURY. ARCHEOLOGY AND ARCHEOMETRY
Bocharov S. 1, Valiulina S. 2
1 Sevastopol State University, Russian Federation
2 Kazan Federal University, Russian Federation

16:20-16:30  Discussion & Coffee Break

16:30-18:00  SACRED LANDSCAPES IN ARCHAEOLOGICAL CONTEXTS
Chair: Prof Adele C. Scafuro (Brown Univ, USA/ Brown University, USA; American School of Classical Studies at Athens )

16:30-16:45  THE REMARKABLE SEISMIC STABILITY OF ARCHAIC AND CLASSICAL TEMPLES
Nicos Makris
Addy Family Centennial Professor in Civil Engineering, Southern Methodist University, USA
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<td>16:45-17:00</td>
<td>ENVIRONMENTAL CHANGE IN A SACRED LANDSCAPE: THE THESSALIAN PELORIA</td>
<td>Denver Graninger, University of California / American School of Classical Studies at Athens</td>
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<td>17:00-17:15</td>
<td>LOCATING THE SACRED LANDSCAPE OF DIONYSOS IN MARATHON</td>
<td>Kazuhiro Takeuchi, Urban-Culture Research Center, Osaka City University; Nagoya University, Japan</td>
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<td>17:15-17:30</td>
<td>ARCHAIC INSCRIBED VOTIVES ON THE ATHENIAN ACROPOLIS: DATING THE DEDICATIONS OF ORDINARY MEN AND WOMEN</td>
<td>Andronike Makres¹ and Adele C. Scafuro²&lt;br&gt;¹Hellenic Education and Research Center, Greece&lt;br&gt;²Brown University, USA; American School of Classical Studies at Athens</td>
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<tr>
<td>17:30-17:45</td>
<td>KEEPING THE SACRED LANDSCAPE BEAUTIFUL AND ELABORATE: MAINTENANCE OF SANCTUARIES IN ANCIENT GREECE</td>
<td>MOROO Akiko, Chiba University of Commerce, Japan</td>
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<td>17:45-18:00</td>
<td>CAVES AS INITIATORY CONTEXTS: THE CASE OF THE IDAEAN CAVE ON MT IDA OF CRETE</td>
<td>Nassos Papalexandrou, The University of Texas at Austin, USA</td>
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<td>18:00-18:30</td>
<td>Discussion &amp; Coffee Break</td>
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<td>18:30-18:45</td>
<td>MISCELLANEOUS</td>
<td>Chair: Dr Deniz Oguz-Kirca (Univ of the Aegean, Greece) and Andronike Makres (Hellenic Education and Research Center, Greece)</td>
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<td>18:30-20:15</td>
<td>CARAT: HISTORY IN CITIES STREET NAMES AN AR APPLICATION FOR CULTURAL TOURISM AND EDUCATION IN URBAN ENVIRONMENTS</td>
<td>Vlachos A.*, Economides A., Perifanou M., Chatzidaki T.&lt;br&gt;SMILE Lab, University of Macedonia, Greece</td>
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Saturday, 18th September 2021

18:45-19:00  TOURIST VALORIZATION OF THE CULTURAL HERITAGE ON THE CROATIAN ISLANDS AND ITS INFLUENCE ON THE ENVIRONMENT
Josip Faricic
University of Zadar, Croatia

19:00-19:15  RECOGNIZE THE INNER ENVIRONMENT ORGANIZATION WITHIN BUILDINGS OF ANCIENT CIVILISATIONS USING A QUANTITATIVE APPROACH
Abdelhalim Assassi*, Halima Zidani1, Ammar Mebarki1
1University of Batna 1, Algeria
2University of M’sila, Algeria

19:15-19:30  MEDITERRANEAN KOINE: A NEW INTERACTIVE PARADIGM FOR THE STUDY OF ANCIENT CIVILIZATIONS
Yongbin Li
Capital University, China

19:30-19:45  EUROPEAN GREEN DEAL AND THE PROSPECTS OF EU-CHINA CLIMATE CHANGE COOPERATION
Zhang Min
Institute of European Studies, Chinese Academy of Social Sciences, China

19:45-20:05  PIRAEUS AS A DIACHRONIC MARITIME CULTURAL HUB: AN ARCHAEOLOGICAL PARK RE-ACTIVATING ITS CULTURAL POTENTIAL–Invited Lecture
Ganiatsas V.
(School of Architecture, National Technical Univ. of Athens, Greece)

20:05-20:15  Discussion
**Sunday, 19th September 2021**

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<td>09:00-10:45</td>
<td>Ancient iron in Europe and China (ca.8th to 3rd centuries BCE)</td>
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<td>Transcultural Comparisons in the Study, Representation and Preservation of Iron Technological Heritage</td>
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<td>Chair: Maria Kostoglou (SOAS University of London)</td>
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<tr>
<td>09:00-09:20</td>
<td>Ancient Iron in Greece and China (c. 8th to 3rd centuries BCE) –</td>
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<td>invited lecture</td>
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<td>Donald B. Wagner</td>
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<td>Nordic Institute of Asian Studies, University of Copenhagen, Denmark /</td>
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<td>Department of Archaeology, Sichuan University, China</td>
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<td>09:20-09:35</td>
<td>On the Inception of Copper-Based Metallurgy in China and Its Inspirations to Our Understanding of Early Chinese Iron Smelting</td>
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<td>Peng Peng, The Chinese University of Hong Kong, China</td>
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<td>09:35 –09:50</td>
<td>On the Development of Regional Iron Production Economies</td>
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<td>Charlton M.¹, Greenwood E.²</td>
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<td>¹UCL Institute of Archaeology, UK</td>
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<td>²University of Exeter, UK</td>
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<td>09:50-10:05</td>
<td>Technical Advancements or Drawbacks in Ancient Greek Iron Production</td>
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<td>as Derived from Studies of Metallurgical Slags</td>
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<td>Bassiakos Y.*, Filippaki E.</td>
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<td>NCSR “Demokritos”, Greece</td>
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<td>10:05-10:20</td>
<td>Ironworking in Aegean Thrace during Antiquity: New Evidence for Smithing Activity of the 4th Century BC at the City on the Molyvoti Peninsula</td>
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<td>Nerantzis N.¹*, Terzopoulou D.², Arrington N.³, Tasaklaki M.⁴</td>
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<td>¹CreA-Patrimoine, Université libre de Bruxelles, Belgium</td>
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<td>²Ephorate of Antiquities of Evros, Greece</td>
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<td>³Princeton University, U.S.A.</td>
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<td>⁴Ephorate of Antiquities of Rhodope, Greece</td>
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Sunday, 19th September 2021

10:20-10:35 TRANSCULTURAL APPROACHES TO IRON AND IRON COLLECTIONS IN GREECE AND CHINA
Dr. Maria Kostoglou, SOAS University of London, UK

10.35-10.45 Discussion

10:45-11:00 Coffee Break

11:00-12:15 CULTURAL EVOLUTION
Chair: Prof Christofilis Maggidis (Mycenaean Foundation/Dickinson College) & Prof. Zhen Qin (Henan University, China)

11:00-11:15 DEVELOPMENT OF THE AEGEAN-ARABIAN AXIS CONTACTS DURING THE 1ST MILLENNIUM BCE: A CULTURAL, HISTORICAL AND ENVIRONMENTAL OVERVIEW
Westra Alexander1,2, Liritzis Ioannis1,2, Miao Changhong1
1Henan University, Henan, China
2Univ. of the Aegean / Henan Univ./ Eur. Acad. Sci. Arts

11:15-11:30 DISASTERS AND SOCIETY: COMPARING THE SHANG AND MYCENAEAN RESPONSE TO NATURAL PHENOMENA THROUGH TEXT AND ARCHAEOLOGY
Westra A.J.D.1,2*, Stefanakis M.I.2, Vavouranakis G.3, Miao C.1, Liritzis I.1,2
1Henan University, China
2University of the Aegean, Greece
3National and Kapodistrian University of Athens, Greece

11:30-11:45 CULTURAL SHIFTS IN CHINA’S NORTHERN CENTRAL PLAINS DURING THE ERLITOU AND ERLIGANG PHASES, NORTHERN HENAN
Zhang L.1, Westra, A.J.D.1,2*
1Henan University, Dept. of Archaeology, China
2University of the Aegean, Greece

11:45-12:00 THE MEGADROUGHT AT THE END OF THE BRONZE AGE IN THE EASTERN MEDITERRANEAN: CLIMATE CHANGE, MIGRATIONS, COLLAPSE OF STATES, AND TRANSFORMATION OF CIVILIZATIONS
Christofilis Maggidis1*, Adrianos Psychas2
1Mycenaean Foundation, Greece; Dickinson College, USA
2University of Athens, Greece & Melathron Center (American Center for Archaeology at Mycenae)
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<td>13:30-17:30</td>
<td><strong>ENVIRONMENTAL GEOARCHAEOLOGY</strong></td>
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<td><strong>Chairs: Prof. Niki Evelpidou (Univ of Athens) &amp; Assoc. Prof Ioannis lliopoulos (Univ. of Patras, Greece)</strong></td>
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<td><strong>A STUDY ON ORIGIN OF GROTTO WITH COVERED-BUKET ROOF IN QIUCI CAVE-CENTERING ON KIZIL GROTTO</strong></td>
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<td>Lei Qi Xing, Shanghai ART and Designe Academy, China.</td>
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<td>13:45-14:00</td>
<td><strong>GEOARCHAEOLOGY AT ISTROS (BLACK SEA, ROMANIA): A MULTI-PROXY APPROACH TO IDENTIFY THE HARBOUR LOCATION</strong></td>
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<td>Alexandra Bivolaru*, Christophe Morhange¹ Valentin Bottez² &amp; Tiberiu Sava³</td>
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<td>¹Aix Marseille Université, France</td>
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<td>²University of Bucharest, Romania</td>
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<td>³Horia Hulubei National Institute for Physics and Nuclear Engineering, Romania</td>
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<td>14:00-14:15</td>
<td><strong>LANDSCAPE TRANSFORMATION AND HUMAN ADAPTATION IN THE NORTHERN DANUBE DELTA</strong></td>
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<td>Alfred Vespremeanu-Stroe*, Luminiţa Preoteasa¹, Anca Dan³, Laurenţiu Țuțuianu¹</td>
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<td>¹GEODAR Research Center University of Bucharest Romania</td>
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<td>²Sf. Gheorghe Marine and Fluvial Research Station, University of Bucharest Faculty of Geography, Romania</td>
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<td>³French National Centre for Scientific Research, France</td>
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<td>14:15-14:30</td>
<td>Coffee Break</td>
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<td>14:30-14:45</td>
<td><strong>MINERALOGICAL AND GECHEMICAL CHARACTERIZATION OF STORAGE PITHOI FROM HELLENISTIC HELIKE (ROMANOS SITE), GREECE: PRELIMINARY RESULTS</strong></td>
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<td>Vayia Xanthopoulou¹, Ioannis Iliopoulos¹,², and Dora Katsonopoulou³</td>
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<td>¹University of Patras</td>
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<td>¹,²University of Patras &amp; University of Barcelona</td>
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<td>³The Helike Project &amp; The Helike Society</td>
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14:45-15:00  AD KARIA TRAKHEIA: AN ARCHAEOTOPOGRAPHIC ENQUIRY ON TWO RURAL SCAPES OF PHOINIX AND SYRNA IN THE MARGINAL ENVIRONMENT OF BOZBURUN PENINSULA (SW TURKEY) BASED ON FIELD DATA AND GEOPROCESSING
E. Deniz Oguz-Kirca, University of the Aegean, Greece

15:00-15:15  AGRICULTURAL INTENSIFICATION AND ENVIRONMENTAL EVOLUTION IN THE LOWER REACHES OF THE YELLOW RIVER: A CASE STUDY IN NEIHUANG COUNTY, HENAN PROVINCE, CHINA
Zhen QIN, School of History and Culture, Henan University, China

15:15-15:30  PEOPLE EXPERIENCED THE PREHISTORIC CHIEMGAU METEORITE IMPACT - GEOARCHAEOLOGICAL EVIDENCE FROM SOUTHEASTERN GERMANY
Rappenglück B.1*, Hiltl M.2, Poßekel J.3, Ernstson K.4
1Chiemgau Impact Research Team, Germany,
2Carl Zeiss Microscopy GmbH, Germany,
3Geophysik Poßekel, Germany
4University of Würzburg, Germany

15:30-15:45  THE INNER CITY OF ATHENS IN GREECE: A PALIMPSEST OF URBAN GEO-ARCHAEOLOGY
George E Kontokostas1, Aggeliki G Kontokosta2, Assimina Antonarakou1
1National and Kapodistrian University of Athens, Greece
2School of Architecture.National Technical University of Athens, Greece

15:45-16:00  THE USE OF CURVELET TRANSFORM FUSION METHOD TO COMBINE GEOPHYSICAL IMAGES IN ARCHAEOLOGICAL RESEARCH
Alexandra Karamitrou1*, Gregory N. Tsokas1, Georgios Didaskalou2
1Laboratory of Exploration Geophysics, Aristotle University of Thessaloniki, Greece
2National & Kapodistrian University of Athens, Greece

16:00-16:15  SUBMERGED HARBOURS, EMERGED INTERPRETATIONS: GEOARCHAEOLOGY AND GEOHERITAGE OF UNDERWATER LANDSCAPES
Labrini Tsitsou
Aix-Marseille University – CEREGE, France
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16:15-16:30  AN OCEANOGRAPHIC INSIGHT IN THE SUBMERSION AND RESILIENCE OF THE PAVLOPETRI ARCHAEOLOGICAL SITE
Poulos S.E.¹*, Panagopoulou A.P.²,³
¹National and Kapodistrian University of Athens, Greece
²University of Leiden, The Netherlands
³Demokritos National Center for Scientific Research, Greece

16:30-16:45  Discussion

16:45-17:00  Coffee Break

17:00-19:25  LANDSCAPE & INTERACTIVE ARCHAEOLOGY
Chair: Dr Eleni Korka (Blue Shield UNESCO Branch, Greece) Dr George Polymeris (NRSC Demokritos, Greece)

17:00-17:15  THE SHAPING OF ANCIENT URBAN CULTURES BY PANDEMSICS
Zhang Zhiyu, Central Academy of Fine Arts, China

17:15-17:30  MYLASA AND YINAN: SINO-HELLENISTIC EXCHANGES IN TOMB ARCHITECTURE
Di Luo, Connecticut College, USA

17:30-17:50  THE VALUE OF KNOWLEDGE OF THE PAST SOCIETIES: SOME THEORETICAL BACKGROUND OF CULTURAL HERITAGE – Invited Lecture
Vladimir I. Ionesov, Samara State Institute of Culture, Russia

17:50-18:05  INDIA’S DECCAN UPLAND: HISTORICAL AND CULTURAL GEOGRAPHY
Y. S. Alone, School of Arts and Aesthetics, Jawaharlal Nehru University, India

18:05-18:20  AND YONDER ALL BEFORE US LIE DESERTS OF VAST ETERNITY. ANCIENT TRAVELERS’ EXPERIENCE OF EGYPT’S DESERT ENVIRONMENT
Lazaridis Nikolaos, California State University, USA

18:20-18:35  CULTURE CONFLICTS MANAGEMENT IN FLUVIAL ARCHAEOLOGICAL CONTEXT IN SÃO PAULO-SOUTH AMERICA, BRASIL
Marise Campos de Souza¹ & Georgios Dimitriadis²
¹Ex-Chef of Archaeological Department Service, IPHAN/SP-Instituto do Patrimônio Histórico Artístico Nacional, Brasil
²OBSERVARE- Autonomy University of Lisbon, Portugal; University of Coimbra, Coimbra, Portugal; ITM- Institute Land e Memory, Mação, Portugal
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18:35-18:45  WHOLE GENOME SEQUENCING APPROACH REVEALED MICROBIAL SPECIES IN MYCENAEAN PERIOD ASSOCIATED RESIDUAL PLANT BIOMASS: FIRST RESULTS
Hilioti Z., Liritzis I., Karapiperis C., Valasiadis D., Rihani V.
1DNASequence SRL Hellas, Thessaloniki, Greece; Institute of Applied Biosciences, Centre for Research & Technology Hellas, Greece
2Henan University, China
3University of the Aegean, Greece
4European Academy of Sciences & Arts, Austria
5DNASequence SRL Hellas, Thessaloniki, Greece
6Chemical Process & Energy Resources Institute, Centre for Research & Technology Hellas, Greece
7School of Informatics, Aristotle University of Thessaloniki, Greece

18:45-19:05  THE EASTERN MEDITERRANEAN TESTBED FOR PALEOENVIRONMENTAL AND CULTURAL ADAPTATION RESEARCH: RECENT APPLICATIONS FROM ISRAEL AND GREECE - Invited Lecture
Thomas Levy, Scripps Center for Marine Archaeology, UC San Diego, USA

19:05-19:25  Discussion

19:25  CLOSING REMARKS – The 3rd Conference & Associated Activities by Prof. Ioannis Liritzis
The Organizing Committee acknowledges the following Sponsors for their precious support to the Conference organization.

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