

2nd



INTERNATIONAL CONFERENCE *on Global Issues of Environment & Culture*

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17th-19th September 2021



SCIENTIFIC PROGRAM

ORGANISED BY:



河南大學
Henan University



UNIVERSITY OF THE
AEGEAN
ΠΑΝΕΠΙΣΤΗΜΙΟ
ΑΙΓΑΙΟΥ

UNDER THE AUSPICES:



HELLENIC REPUBLIC
MINISTRY OF TOURISM



ΕΛΛΗΝΙΚΗ ΔΗΜΟΚΡΑΤΙΑ
Υπουργείο Πολιτισμού και Αθλητισμού



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2nd INTERNATIONAL CONFERENCE *on Global Issues of Environment & Culture* 17th-19th September 2021

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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)

Introduction-Greetings to the 2nd Sino-Hellenic International Conference on *Global Issues of Environment & Cultures, Delphi, Friday 17 Sept 2021.*

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 Prof. **Zhenghui SONG**, The first secretary of Henan Provincial Department of Education

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Friday, 17th September 2021

- 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
- 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)
- 13:20-13:35 **CULTURAL HERITAGE & CLIMATIC CHANGE THE CURRENT & FUTURE ROLE OF RELATIVE SEA LEVEL RISE- Invited Lecture**
Prof Niki Evelpidou (Nat. Kapodistrian University of Athens, Greece)
- 13:35-13:45 Discussion**
- 13:45-15:00 Noon Break**
- 15:00 -17:30 STRATEGIES FOR ARCHAEOLOGICAL SHRINES IN CHRISTIANE & BUDDHIST LANDSCAPES. PAST, PRESENT AND FUTURE**
Chairs: Georgios Dimitriadis (Autonomy University of Lisbon, Portugal), Yashadatta Alone & Zhang Tongbiao (Jiangsu University, China)
- 15:00-15:15 THE FEATURES ART AND CULTURAL OF BUDDHIST SCULPTURE IN THE PĀLA 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)



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- 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 ARCHAOMETALURGICAL ACTIVITY IN PROVINCE OF BRESCIA, ITALY
Gianfranco Masetti (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, ²Univ. of the Aegean / Henan Univ./ Eur. Acad. Sci. Arts)
-

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17:45-18:00 **STARS, THE FIRMAMENT 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
& People's University of Athens, Hellas)*

18:00-18:15 **THE ASTRONOMICAL HOROLOGION & TOWER OF THE WINDS (ATHENS):
A FIRST ARCHAEOASTRONOMICAL STUDY VIA GIS-BASED VIRTUAL
RECONSTRUCTION**
*Vlachos A.*¹ 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.^{1}, Spasova M.², Aleksova D.³ & Stoev A.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*



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

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

09:00-09:20 50,000-YEAR OF HUMAN REACTION TO ENVIRONMENTAL CHANGE IN NEW GUINEA – invited lecture

Glen R. Summerhayes (Archaeology, Otago University, New Zealand)

09:20-09:40 DIRECT DATING OF CHINESE IMMOVABLE CULTURAL HERITAGE – invited lecture

Robert G. Bednarik (International Center of Rock Art Dating, Hebei Normal University, China & Convener, International Federation of Rock Art Organizations (IFRAO), Australia)

09.40-10.00 IT'S NOW OR NEVER: CHANGING CULTURES AND THE INVESTIGATION OF INDIGENOUS ASTRONOMICAL SYSTEMS – invited lecture

Wayne Orchiston^{1} and Darunee Lingling Orchiston²*

¹National Astronomical Research Institute of Thailand, and Centre for Astrophysics, University of Southern Queensland, Australia

²Independent scholar, Mae Taeng, Thailand

10.00-10.20 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

Yan Liu^{1}, Yang Junchang¹, Yu Jianjun², Yongying Ma³*

¹Institute of Culture and Heritage, Northwestern Polytechnical University, China

²Xinjiang Institute of Cultural Heritage and Archaeology, China

³Shaanxi Academy of Archaeology, China

10:20-11:35 RECONSTRUCTING THE PAST AT VERGINA – AEGAE

Chairs: G.N. Tsokas (Aristotle University of Thessaloniki, Greece) & Prof. Zhen Qin (Henan University, China)

10:20-10:35 3D MAPPING AND MODELING STUDIES IN THE ARCHAEOLOGICAL SITE OF VERGINA

Petros Patias, Charalampos Georgiadis, Vasileios Tsioukas, Dimitrios Kaimaris (The Aristotle University of Thessaloniki, Greece)*



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- 10:35-10:50** **VERGINA ARCHAEOLOGICAL SITE: INTERPRETATION OF THE ARCHAEOGEOPHYSICAL PROSPECTION RESULTS**
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
-
- 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**
-
- 11:50-14:05** **INVESTIGATIONS FOR THE CONSERVATION/AT-RISK PROTECTION ISSUES OF CULTURAL TANGIBLE & INTANGIBLE HERITAGE**
Chair: Prof. Ioannis Karapanagiotis (Eccl. Acad. of Thessaloniki, Greece) & Assist. Prof P. Manti (Ionion Univ., Greece)
-
- 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

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- 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^{1}, Dimitrios Emmanouloudis¹, Elena Korca² & 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 ARCHAEOLOGICAL 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 ARCHAEOLOGICAL 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. Nasr³
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.^{1} & Anagnostou M.^{2,1}*
¹Department of Environment, Ionian University, Greece
²IERSD, National Observatory of Athens, Greece
-
- 13:35-13:50 SUPERHYDROPHOBIC, SUPERAMPHIPHOBIC AND SELF-CLEANING NANOMATERIALS FOR THE CONSERVATION OF BUILDINGS OF THE CULTURAL HERITAGE**
Karapanagiotis, I.
University Ecclesiastical Academy of Thessaloniki, Greece
-
- 13:50-14:00 Discussion**



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14:00-14:30 Noon Break

14:30-16:30 ENVIRONMENTAL ARCHEOMETRY & ANCIENT TECHNOLOGIES

Chairs: Prof. Manolis Stefanakis (University of the Aegean, Greece) & Prof. Miao Changhong (Henan University, China)

14:30-14:50 THE INTERDISCIPLINARY STUDY OF ANCIENT COPPER PRODUCTION IN THE MINING DISTRICTS OF THE TROODOS MOUNTAINS, CYPRUS – invited lecture
Vasiliki Kassianidou
University of Cyprus, Cyprus

14:50-15:05 RECIPES FOR PIGMENT MANUFACTURING IN POST-BYZANTINE PAINTING MANUALS

Mastrotheodoros G.P.^{1,2,3}, Beltsios K.G.².*

¹*University of West Attica, Greece*

²*National Technical University of Athens, Greece*

³*NCSR "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.E.¹.*

¹*University of California San Diego, USA*

²*University of the Aegean, Greece*

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- 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.S⁶*
¹Laboratory of Archaeometry, Department of Mediterranean Studies, University of the Aegean, Rhodes, Greece
²Solid State Section
³Nuclear Physics Laboratory, Physics Department, Aristotle University of Thessaloniki, Thessaloniki, Greece
⁴Henan University, Institute of Capital Civilization and Cultural Heritage, China
⁵European Academy of Sciences & Arts, Salzburg
⁶Institute 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^{1}*
¹Sevastopol State University, Russian Federation
²Kazan 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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- 16:45-17:00** **ENVIRONMENTAL CHANGE IN A SACRED LANDSCAPE: THE THESSALIAN PELORIA**
Denver Graninger, University of California / American School of Classical Studies at Athens
-
- 17:00-17:15** **LOCATING THE SACRED LANDSCAPE OF DIONYSOS IN MARATHON**
Kazuhiro Takeuchi
Urban-Culture Research Center, Osaka City University; Nagoya University, Japan
-
- 17:15-17:30** **ARCHAIC INSCRIBED VOTIVES ON THE ATHENIAN ACROPOLIS: DATING THE DEDICATIONS OF ORDINARY MEN AND WOMEN**
Andronike Makres¹ and Adele C. Scafuro²
¹Hellenic Education and Research Center, Greece
²Brown University, USA; American School of Classical Studies at Athens
-
- 17:30-17:45** **KEEPING THE SACRED LANDSCAPE BEAUTIFUL AND ELABORATE: MAINTENANCE OF SANCTUARIES IN ANCIENT GREECE**
MOROO Akiko
Chiba University of Commerce, Japan
-
- 17:45-18:00** **CAVES AS INITIATORY CONTEXTS: THE CASE OF THE IDAEAN CAVE ON MT IDA OF CRETE**
Nassos Papalexandrou
The University of Texas at Austin, USA
-
- 18:00-18:30** **Discussion & Coffee Break**
-
- 18:30-20:15** **MISCELLANEOUS**
Chair: Dr Deniz Oguz-Kirca (Univ of the Aegean, Greece) and Andronike Makres (Hellenic Education and Research Center, Greece)
-
- 18:30-18:45** **CARAT: HISTORY IN CITIES STREET NAMES AN AR APPLICATION FOR CULTURAL TOURISM AND EDUCATION IN URBAN ENVIRONMENTS**
Vlachos A., Economides A., Perifanou M., Chatzidaki T.*
SMILE Lab, University of Macedonia, Greece
-

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- 18:45-19:00** **TOURIST VALORISATION 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^{1}, Halima Zidani², 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**



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- 09:00-10:45** Ancient iron in Europe and China (ca.8th to 3rd centuries BCE)
TRANSCULTURAL COMPARISONS IN THE STUDY, REPRESENTATION AND PRESERVATION OF IRON TECHNOLOGICAL HERITAGE
Chair: Maria Kostoglou (SOAS University of London)
- 09:00-09:20** **ANCIENT IRON IN GREECE AND CHINA (C. 8TH TO 3RD CENTURIES BCE) – invited lecture**
Donald B. Wagner
Nordic Institute of Asian Studies, University of Copenhagen, Denmark / Department of Archaeology, Sichuan University, China
- 09:20-09:35** **ON THE INCEPTION OF COPPER-BASED METALLURGY IN CHINA AND ITS INSPIRATIONS TO OUR UNDERSTANDING OF EARLY CHINESE IRON SMELTING**
Peng Peng, The Chinese University of Hong Kong, China
- 09.35 –09.50** **ON THE DEVELOPMENT OF REGIONAL IRON PRODUCTION ECONOMIES**
Charlton M.¹, Greenwood E.²
¹*UCL Institute of Archaeology, UK*
²*University of Exeter, UK*
- 09:50-10:05** **TECHNICAL ADVANCEMENTS OR DRAWBACKS IN ANCIENT GREEK IRON PRODUCTION AS DERIVED FROM STUDIES OF METALLURGICAL SLAGS**
Bassiakos Y., Filippaki E.*
NCSR "Demokritos", Greece
- 10:05-10:20** **IRONWORKING IN AEGEAN THRACE DURING ANTIQUITY: NEW EVIDENCE FOR SMITHING ACTIVITY OF THE 4TH CENTURY BC AT THE CITY ON THE MOLYVOTI PENINSULA**
Nerantzis N.^{1}, Terzopoulou D.², Arrington N.³,Tasaklaki M.⁴*
¹*CRéA-Patrimoine, Université libre de Bruxelles, Belgium*
²*Ephorate of Antiquities of Evros, Greece*
³*Princeton University, U.S.A.*
⁴*Ephorate of Antiquities of Rhodope, Greece*

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Sunday, 19th September 2021

10:20-10:35 TRANSCULTURAL APPROACHES TO IRON AND IRONCOLLECTIONS 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 Alexander^{1,2}, Liritzis Ioannis^{1,2}, 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

¹Westra 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 Maggidis^{1}, Adrianos Psychas²*

¹Mycenaean Foundation, Greece; Dickinson College, USA

²University of Athens, Greece & Melathron Center (American Center for Archaeology at Mycenae)



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12:00-12:15 Discussion

12:15-13:30 Noon Break

13:30-17:30 ENVIRONMENTAL GEOARCHAEOLOGY

Chairs: Prof. Niki Evelpidou (Univ of Athens) & Assoc. Prof Ioannis Iliopoulos (Univ. of Patras, Greece)

13:30-13:45 A STUDY ON ORIGIN OF GROTTO WITH COVERED-BUKET ROOF IN QIUCI CAVE-CENTERING ON KIZIL GROTTO

Lei Qi Xing, Shanghai ART and Designe Academy,China.

13:45-14:00 FORECASTING IMPACTS ON VULNERABLE SHORELINES: LUMINESCENCE DATING AND VULNERABILITY ASSESSMENT ALONG THE COASTAL ZONE OF MESSOLOGI AREA - WESTERN GREECE

*Tsakalos E. *, Kazantzaki M., Filippaki E. & Bassiakos Y.*

Institute of Nanoscience and Nanotechnology/NCSR "Demokritos", Greece

14:00-14:15 ARCHAOMETALLURGICAL STUDY OF ANCIENT IRON OBJECTS FROM CAVE OF ZEUS – MOUNT PARNES, ATTICA

Roggenbucke M.^{1}, Bassiakos Y.² & Filippaki E.²*

¹Faculty of History and Archaeology, University of Athens, Greece

²NCSR "Demokritos", Greece

14:15-14:30 SEA LEVEL RISE AND IMPLICATIONS FOR LOW-LYING AREAS: PAST COASTAL EVOLUTION AND IMPACT OF FUTURE SEA LEVEL RISE SCENARIOS IN MIRABELLO GULF - NE CRETE

*Kazantzaki M. *, Tsakalos E., Filippaki E. & Bassiakos Y.*

Institute of Nanoscience and Nanotechnology/NCSR "Demokritos", Greece

14:30-14:45 GEOARCHAEOLOGY AT ISTROS (BLACK SEA, ROMANIA): A MULTI-PROXY APPROACH TO IDENTIFY THE HARBOUR LOCATION

Alexandra Bivolaru^{1}, Christophe Morhange¹ Valentin Bottez² & Tiberiu Sava³*

¹Aix Marseille Université, France

²University of Bucharest, Romania

³Horia Hulubei National Institute for Physics and Nuclear Engineering, Romania

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- 14:45-15:00** **LANDSCAPE TRANSFORMATION AND HUMAN ADAPTATION IN THE NORTHERN DANUBE DELTA**
*Alfred Vespremeanu-Stroe^{*1,2}, Luminița Preoteasa^{1,2}, Anca Dan³, Laurențiu Țuțuianu¹*
¹GEODAR Research Center University of Bucharest Romania
²Sf.Gheorghe Marine and Fluvial Research Station, University of Bucharest Faculty of Geography, Romania
³French National Centre for Scientific Research, France
-
- 15:00-15:15** **Coffee Break**
- 15:15-15:30** **MINERALOGICAL AND GEOCHEMICAL CHARACTERIZATION OF STORAGE PITHOI FROM HELLENISTIC HELIKE (ROMANOS SITE), GREECE: PRELIMINARY RESULTS**
Vayia Xanthopoulou¹, Ioannis Iliopoulos^{1,2}, and Dora Katsonopoulou³
¹University of Patras
^{1,2}University of Patras & University of Barcelona
³The Helike Project & The Helike Society
-
- 15:30-15:45** **AD KARIA TRAKHEIA: AN ARCHAEO TOPOGRAPHIC ENQUIRY ON TWO RURALS CAPES 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
-
- 15:45-16:00** **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
-
- 16:00-16:15** **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



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- 16:15-16:30** **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
-
- 16:30-16:45** **THE USE OF CURVELET TRANSFORM FUSION METHOD TO COMBINE GEOPHYSICAL IMAGES IN ARCHAEOLOGICAL RESEARCH**
Alexandra Karamitrou^{1}, Gregory N. Tsokas¹, Georgios Didaskalou²*
¹Laboratory of Exploration Geophysics, Aristotle University of Thessaloniki, Greece
² National & Kapodistrian University of Athens, Greece
-
- 16:45-17:00** **SUBMERGED HARBOURS, EMERGED INTERPRETATIONS: GEOARCHAEOLOGY AND GEOHERITAGE OF UNDERWATER LANDSCAPES**
Labrini Tsitsou
Aix-Marseille University – CEREGE, France
-
- 17:00-17:15** **AN OCEANOGRAPHIC INSIGHT IN THE SUBMERGENCE 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
-
- 17:15-17:30** **Discussion**
- 17:30-17:45** **Coffee Break**
-
- 17:45-20:10** **LANDSCAPE & INTERACTIVE ARCHAEOLOGY**
Chair: Dr Eleni Korca (Blue Shield UNESCO Branch, Greece) Dr George Polymeris (NRSC Demokritos, Greece)
-
- 17:45-18:00** **THE SHAPING OF ANCIENT URBAN CULTURES BY PANDEMIC**
Zhang Zhiyu, Central Academy of Fine Arts, China
-
- 18:00-18:15** **MYLASA AND YINAN: SINO-HELLENISTIC EXCHANGES IN TOMB ARCHITECTURE**
Di Luo, Connecticut College, USA
-

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Sunday, 19th September 2021

- 18:15-18:35** **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
-
- 18:35-18:50** **INDIA'S DECCAN UPLAND: HISTORICAL AND CULTURAL GEOGRAPHY**
Y. S. Alone, School of Arts and Aesthetics, Jawaharlal Nehru University, India
-
- 18:50-19:05** **AND YONDER ALL BEFORE US LIE DESERTS OF VAST ETERNITY. ANCIENT TRAVELERS' EXPERIENCE OF EGYPT'S DESERT ENVIRONMENT**
Lazaridis Nikolaos, California State University, USA
-
- 19:05-19:20** **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
-
- 19:20-19:30** **WHOLE GENOME SEQUENCING APPROACH REVEALED MICROBIAL SPECIES IN MYCENAEAN PERIOD ASSOCIATED RESIDUAL PLANT BIOMASS: FIRST RESULTS**
Hilioti Z¹, Liritzis I.^{2,3,4}, Karapiperis C.^{5,6,7}, Valasiadis D⁵, Alexandridou A.⁵, Rihani V.⁵
¹Institute of Applied Biosciences, Centre for Research & Technology Hellas, Greece
²Henan University, China
³University of the Aegean, Greece
⁴European Academy of Sciences & Arts, Austria
⁵DNASequense SRL Hellas, Thessaloniki, Greece
⁶Chemical Process & Energy Resources Institute, Centre for Research & Technology Hellas, Greece
⁷School of Informatics, Aristotle University of Thessaloniki, Greece
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- 19:30-19:50** **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
-
- 19:50-20:10** **Discussion**
- 20:10** **CLOSING REMARKS – The 3rd Conference & Associated Activities by Prof. Ioannis Liritzis**