



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



ORGANISED BY:



河南大學
Henan University



UNIVERSITY OF THE
AEGEAN
ΠΑΝΕΠΙΣΤΗΜΙΟ
ΑΙΓΑΙΟΥ



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)

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 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

SCIENTIFIC PROGRAM

Friday, 17th September 2021

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 Korca (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)

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)



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SCIENTIFIC PROGRAM

Friday, 17th September 2021

- 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 ARCHAEOLOGICAL 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, Maçã, 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)
- 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)

SCIENTIFIC PROGRAM

Friday, 17th September 2021

- & 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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Friday, 17th September 2021

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 Liritzis 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 Liritzis "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 Paeon from the Liturgy of Orpheus by Greek musician and composer Yannis Markopoulos (1994)

Saturday, 18th September 2021

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)

SCIENTIFIC PROGRAM

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)

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



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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 G.²*
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 (Ionian 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

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^{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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SCIENTIFIC PROGRAM

Saturday, 18th September 2021

- 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.
¹University of West Attica, Greece
²National 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.E.¹.
¹University of California San Diego, USA
²University of the Aegean, Greece

SCIENTIFIC PROGRAM

Saturday, 18th September 2021

- 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
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 S.¹, Valiulina S.²
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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SCIENTIFIC PROGRAM

Saturday, 18th September 2021

- 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

SCIENTIFIC PROGRAM

Saturday, 18th September 2021

- 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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SCIENTIFIC PROGRAM

Sunday, 19th September 2021

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
¹UCL Institute of Archaeology, UK
²University 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
¹CREA-Patrimoine, Université libre de Bruxelles, Belgium
²Ephorate of Antiquities of Evros, Greece
³Princeton University, U.S.A.
⁴Ephorate of Antiquities of Rhodope, Greece

SCIENTIFIC PROGRAM

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)



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



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Sunday, 19th September 2021

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	GEOARCHAEOLOGY AT ISTROS (BLACK SEA, ROMANIA): A MULTI-PROXY APPROACH TO IDENTIFY THE HARBOUR LOCATION Alexandra Bivolaru ^{1*} , Christophe Morhange ¹ Valentin Bottez ² & Tiberiu Sava ³ ¹ Aix Marseille Université, France ² University of Bucharest, Romania ³ Horia Hulubei National Institute for Physics and Nuclear Engineering, Romania
14:00-14:15	LANDSCAPE TRANSFORMATION AND HUMAN ADAPTATION IN THE NORTHERN DANUBE DELTA Alfred Vespremeanu-Stroe ^{*1,2} , Luminița Preoteasa ^{1,2} , Anca Dan ³ , Laurențiu Țuțuianu ¹ ¹ GEODAR Research Center University of Bucharest Romania ² Sf.Gheorghe Marine and Fluvial Research Station, University of Bucharest Faculty of Geography, Romania ³ French National Centre for Scientific Research, France
14:15-14:30	Coffee Break
14:30-14:45	MINERALOGICAL AND GEOCHEMICAL CHARACTERIZATION OF STORAGE PITHOI FROM HELLENISTIC HELIKE (ROMANOS SITE), GREECE: PRELIMINARY RESULTS Vayia Xanthopoulou ¹ , Ioannis Iliopoulos ^{1,2} , and Dora Katsonopoulou ³ ¹ University of Patras ^{1,2} University of Patras & University of Barcelona ³ The Helike Project & The Helike Society

SCIENTIFIC PROGRAM

Sunday, 19th September 2021

14:45-15:00	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
15:00-15:15	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 , Poßkel J. ³ , Ernstson K. ⁴ ¹ Chiemgau Impact Research Team, Germany, ² Carl Zeiss Microscopy GmbH, Germany, ³ Geophysik Poßkel, Germany ⁴ University of Würzburg, Germany
15:30-15:45	THE INNER CITY OF ATHENS IN GREECE: A PALIMPSEST OF URBAN GEOARCHAEOLOGY George E Kontokostas ¹ , Aggeliki G Kontokosta ² , Assimina Antonarakou ¹ ¹ National and Kapodistrian University of Athens, Greece ² School 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 Karamitrou ^{1*} , Gregory N. Tsokas ¹ , Georgios Didaskalou ² ¹ Laboratory of Exploration Geophysics, Aristotle University of Thessaloniki, Greece ² National & 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



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



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Sunday, 19th September 2021

- 16:15-16:30 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
- 16:30-16:45 Discussion**
- 16:45-17:00 Coffee Break**
- 17:00-19:25 LANDSCAPE & INTERACTIVE ARCHAEOLOGY**
Chair: Dr Eleni Korca (Blue Shield UNESCO Branch, Greece) Dr George Polymeris (NRSC Demokritos, Greece)
- 17:00-17:15 THE SHAPING OF ANCIENT URBAN CULTURES BY PANDEMICS**
Zhang Zhiyu, Central Academy of Fine Arts, China
- 17:15-17:30 MYLASA AND YINAN: SINOHELLENISTIC 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

SCIENTIFIC PROGRAM

Sunday, 19th September 2021

- 18:35-18:45 WHOLE GENOME SEQUENCING APPROACH REVEALED MICROBIAL SPECIES IN MYCENAEAN PERIOD ASSOCIATED RESIDUAL PLANT BIOMASS: FIRST RESULTS**
Hilioti Z.¹, Liritzis I.^{2,3,4}, Karapiperis C.^{5,6,7}, Valasiadis D.⁵, Rihani V.⁵
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**