



Port Tarragona

Agenzia
d'Autonomia
dei Ricerca
AGAUR
Generalitat de Catalunya
Universitat de Tarragona

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ACBA
ASSOCIACIÓ CATALANA
DE BIArQUEOLOGIA

ESCLAT

CERCA
Research Centres
of Catalonia

Association for
Environmental
Archaeology

43rd Conference of the
Association for Environmental
Archaeology (AEA)

Hosted by
ICAC
Institut Català
d'Arqueologia Clàssica

PROGRAMME

Friday 24th November

14:00-15.00 Registration

15.00-15.15 Welcome & opening of the conference: A. Livarda, M. Ferrer

15.15-15.45 Keynote: "Socio-environmental interactions and land-use change in the shaping of Cultural Landscapes: research in western Mediterranean littoral plains and mountain environments" (*Josep Maria Palet, ICAC*)

15.45-16.30 Keynote: "Narratives of environmental archaeology in Iberia: our stories with bones and seeds" (*Leonor Peña Chocarro & Marta Moreno García, CCSH-CSIC*)

16.30-16.45 Discussion. Chairs: A. Livarda, L. Colominas

16.45-17.00 Break

17.00-18.30

Session 1: Stories of changes in agricultural practices, human-animal interactions and diet – Chairs: P. Vandorpe & L. Strolin

1. Why change if everything is going fine? An environmental approach to the meso-neolithic transition in the Dnipro Rapids Region (Ukraine) (*O. Demchenko*)
2. Conservative, traditionalist, prudent? Discerning the attitudes of past agriculturists from stable isotope data - the A14 project, Cambridgeshire, UK. (*M. Wallace*)
3. Investigating dietary habits of the eastern Iberian Peninsula in the Roman period: Puig Castellar and Guissona during the 1st century BC to the 3rd century AD (*Th. Baniou, A. Suryanarayanan, A. Livarda, J. Villanueva, N. Moraleda, N. Romani, E. Rodrigo*)
4. Narratives of ritual boars from Early Neolithic Asia (*P. Vaiglova, H. Kierdorf, C. Witzel, R. Joannes-Boyau, P. Bangsgaard, L. Yeomans, T. Richter, H. Darabi*)
5. Pigs at the Frontier: Swifterbant and Middle Neolithic suids from Medel-De Roeskamp, The Netherlands (*P. Rowley-Conwy, K. Esser, T. ten Anscher*)
6. Exploring Biomes and Diet through white-tailed deer teeth (*M. F. Martínez-Polanco, F. Rivals*)

Discussion

18.30-19.30 WINE RECEPTION

Saturday 25th November

8-8.30 registration

8.30-10.45

Session 2: Geoarchaeological histories, soil biographies and stone landscapes –

Chairs: A. Mayoral & M. Mateu

1. The Mesolithic of the Stonehenge Environs: A SedaDNA Based Multiproxy Approach to Reconstructing the Pre-Neolithic Landscape History of the Avon Riverside (*S. M. Hudson, I. Alsol, C. French, D. Jacques, A. Köhler, B. Pears, R. Scaife, U. Werban, C. Zielhofer, A. G. Brown*)
2. A micro-contextual palaeoenvironmental study of the PPNA/B transition at Kharaysin, Jordan (*A. García-Suárez, J. Aranbarri, L. Gourichon, E. Iriarte, M. Portillo, J. J. Ibáñez, J. Muñiz*)
3. Combining terrestrial sedaDNA and sedimentological techniques to determine a late Holocene history of colluviation and land use across a chalkland dry valley in eastern Belgium (*B. Pears, A. Lang, D. Fallu, S. Hudson, K. van Oost, P. Zhao, P. Tarolli, S. Cucchiaro, K. Walsh, A. G. Brown*)
4. Geoarchaeological assessment of prehistoric burial grounds deepens our knowledge of human-environment relations - A case study of the Macchiabate necropolis in northern Calabria, Italy (*H. E. Bouter*)

Discussion

5. Mediterranean Agricultural Terraces: Chronology, geoarchaeology and sedaDNA (*A. G. Brown, D. Fallu, A. Lang, K. Walsh, M. Alonso Eguiluz, R. M. Albert, I. Alsol*)
6. Geoarchaeology in a peri-urban environment: a soil micromorphological case study of the "Land of Aynadamar" in Nasrid Granada (Spain), the northern outskirts of the last Islamic town in Iberia (13th-16th centuries) (*R. Y. Banerjea, G. García-Contreras, M. García- García, L. Mattei, A. G. Pluskowski*)
7. A Geoarchaeological History of Pre-Modern Agricultural Terraces in Soave, Veneto: Construction, Use, and Impact (*D. Fallu, S. Cucchiaro, A. Lang, F. Ficetola, R. M. Albert, A. G. Brown*)
8. From geologies to biographies: exploring human/rocks entanglement in quarried landscapes (*C. Sciuto*)
9. A Prehistoric landscape and cursus monument at Drumadoon, Isle of Arran, Scotland (*N. Whitehouse, K. Brophy, E. Jenkins, D. Marićević, G. McGregor, L. McFadyen, M. Farrell, S. Elliot, P. Ascough, B. Pears, S. Hudson, A. G. Brown, H. Chapman*)

Discussion

10.45-11.15 COFFEE BREAK

11.15 -13.00:

Session 3: Narratives of animal management through time – Chairs: L. Colominas & S. Stallibrass

1. Livestock feeding practices in early pastoral nomadism: Dental Microwear Texture Analysis at two 7th millennium sites in the Syrian desert (*S. Jiménez-Manchón, L. Gourichon, J. J. Ibáñez, F. Abbès*)
2. Human-equid and landscape interactions at Can Roqueta (Sabadell, Barcelona): a multi-isotopic perspective (*S. Valenzuela-Lamas, S. Albizuri, M. Díaz Zorita-Bonilla, L. D. Pena, D. Bosch, M. E. Subirà, F. J. López-Cachero*)
3. Landscape exploitation and catchment areas from the buried community of the staggered terriform of Son Ferrer (Mallorca, Spain) (*L. Valenzuela-Suau, S. Valenzuela-Lamas, J. García Rosselló, P. Salvador Gómez-Grandoli, J. Nadal Lorenzo, M. Díaz-Zorita Bonilla, L. D. Pena González, A. Delgado, M. Calvo Trias*)

Discussion

4. Unveiling sheep altitudinal movements in the northeastern Iberian Peninsula during the 3rd c. BC: insights from a multi-isotope approach (*C. Messana, C. Tornero, R. Madgwick, A. Lamb, J. Evans, L. Colominas*)

5. The dramatic death of a Ceretanian herd (3rd c. BC) (*O. Olesti Vila, M. Portillo, L. Colominas, C. Messana, J. Oller, J. Morera*)
6. Insights on fishing in the north-eastern Iberian Peninsula during Late Antiquity: a case study from Aiguafreda de Dalt (Aiguafreda, Montseny massif, Catalonia, 7th century) (*A. Brosa i Planella, A. Gallego-Valle, A. Garcia Molsosa, S. Riera Mora, M. Saña Seguí, A. Morales Muñiz*)
7. The (Re-)Invention of Livestock Breeding – Retelling the story of an ‘exclusively modern’ phenomenon (*F. Sadebeck*)

Discussion

13-14.30 LUNCH

14.30-16.30

Session 4: Socio-environmental stories from the mountains to the sea - Chairs: S. Riera & A. Garcia-Molsosa.

1. Beyond the palaeoenvironment: social landscapes in the highlands of the Central Pyrenees throughout the Holocene (*E. Gassiot Ballbé, I. Clemente Conte, S. Díaz Bonilla, D. García Casas, L. Obea Gómez, J. Rey Lanaspa, D. Rodríguez Antón, G. Salvador Baiges*)
2. Discovering Landscape Archaeology. The Didactic Laboratory As A Tool For Outreach And Transfer Of Knowledge In Science And Research (*M. Flórez, J.-M. Palet, A. Carbonell, L. Colominas, A. Mayoral, V. Pescini, A. Gallego-Valle, T. Martínez, L. Coma*)
3. Spatial modelling of cropping systems. Evaluating the agricultural potential of the Central Pyrenees during the Neolithic period (*G. Salvador-Baiges, F. Antolín, E. Gassiot-Ballbè*)
4. Growing crops at high altitudes at mid-Holocene? Tracing human activities in Pyrenees range by microbotanical proxies (*D. Rodríguez Antón, J. Revelles, E. Gassiot*)

Discussion

5. A Historical Ecology of Apiculture in the Cherangani Hills, Elgeyo-Marakwet, Kenya (*B. Qihao Shen*)
6. Holocene alluvial dynamics and human settlement histories in the Xerolakkos catchment (Grevena, GR) (*G. Apostolou, A. Mayoral, K. Venieri, S. Dimaki, A. Garcia-Molsosa, M. Georgiadis, H. A. Orengo*)
7. Using the archaeoentomological approach to document interactions between man and his environment from the Neolithic to Antiquity (*L. Richelmi, F. Verdin, J.-B. Huchet*)

Discussion

16.30-17.00 COFFEE BREAK

16.30-17.30

Poster Session

1. Water condition of the Senne river in late medieval Brussels (Belgium) (*B. De Cupere, K. Lock*)
2. Plant Use and Processing in the Cerrado Biome (Central Brazil): New Insights from Phytoliths and Starch (*D. Dias Ortega, M. Madella, X. Suarez Villagran, C. Boyadjian, A. Strauss, J. Ruiz-Pérez, R. Oliveira, E. Nunes Chim, H. Straioto*)
3. Wood structures on the coastline of the Lido di Venezia (Italy): breakwater, pier...or? (*C. Campagnol, R. Deiana, A. Forti, S. Garavello, C. Lucarini, N. Martinelli, O. Pignatelli, P. Mozzi, C. Rossi, Z. Sharafi-Roumi, C. Stefani, A. Zandinella, S. Zampieri*)
4. Fuelling the city: an anthracological and dendro-anthracological approach to wood fuel consumption in Late Medieval and Modern Barcelona (*S. Bianco, E. Allué, L. Picornell-Gelabert, S. Riera Mora, C. Miró i Alaix*)

5. Landscape shaping by the earliest farming communities in the Barcelona Plain: The Cagalell marsh settlement area (*A. Pena Pérez, R. Julià Brugués, F. Mesquita-Joanes, X. Armengol, S. Riera Mora*)
6. Serbian Banat LBA communities: making the most of their landscape (*M. Estanqueiro*)
7. Human-induced deforestation of *Quercus ithaburensis*-*Pistacia* woodlands during the PPNA/B at Kharaysin, Jordan (*J. Aranbarri, E. Iriarte, J. J. Ibáñez, J. Ramón Muñiz*)
8. Preliminary results on the archaeobotanical records of the Iron Age settlement of L'Assut (Tivenys, Baix Ebre) (*L. Bricio, I. Cots, J. Diloli, R. Ferré, S. Sardà*)
9. Sitting by the fire. The challenges of building narratives from archaeological evidence about past firewood (*E. Allué, A. Robledo, C. Speciale, B. Mas, S. Bianco, T. Fernández-Iriarte, L. Picornell-Gelabert*)
10. The influence of dissolution on phytolith morphology and its significance for the quantification and interpretation of the micro(archaeo)botanical record (*N. C. Andriopoulou, G. E. Christidis*)
11. Mineralogical and chemical characterisation of historic mortar-based materials: the case of Cemetery of the Monastery of Pammegiston Taxiarchon in Boeotia, Greece (*G. Triantafyllou, N. C. Andriopoulou, M. Kostara*)
12. Landscape evolution of cultural sites with electrical resistivity tomography: the case of Phaistos, Crete, Greece (*N. Papadopoulos, D. Oikonomou, J. Bendle, G. Iliopoulos, M. Spiridakis, N. C. Andriopoulou*)
13. Science communication in public archaeology: results of an online survey (*R. Banerjea*)
14. Island stories: constraints and opportunities of wood exploitation on small insular environments during prehistory (*C. Speciale, E. Allué*)
15. Investigating the preservation of phytoliths on knapped stone tools. Preliminary results of an Experimental Archaeology pilot project (*N. C. Andriopoulou, C. Papouli, J. C. Tactikos, N. Galanidou*)
16. Probabilities in unstable world - how to minimize subjectivity in archaeobotanical research - a case study from Zaborów near Warsaw (*E. Drogosz, A. Mueller-Bieniek*)
17. The same tree, the same gathering?: Exploring woody species selection from Late Holocene occupations in the central part of Argentina (*A. Robledo, C. Romanutti, A. Chavez*)
18. Confirming pitch production at the Madriu-Perafita-Claror Valley (Andorra): organic residue analysis of a Roman kiln (*A. Falcó, H. Orengo, J. M. Palet, A. Ejarque, I. Euba, A. Pecci*)
19. The palynological evidence from a Bronze Age burial in El Mirador cave (Atapuerca, Burgos) (*I. Expósito, E. Allué, J. M. Vergès*)
20. Archaeobotanical studies of slag-pit furnaces from the Roman Iron Age site at Zaborów near Warsaw (*A. Mueller-Bieniek, A. Cieśliński, E. Drogosz, M. Woźniak*)
21. What lithics can reveal: tracing the first human steps on the island of Lemnos (NE Aegean, Greece) (*Y. Agafonova, N. Efstratiou, P. Biagi, E. Starnini*)
22. Meat consumption in the site of Sant Esteve d'Olius (Solsonès, NE Spain) between the Iron Age and the High Middle Ages (*K. Cajtak, D. Asensio, R. Cardona, J. Morer de Llorens, J. Nadal, S. Valenzuela Lamas*)
23. On the arboreal flora of Mount Aragats in the past: anthracological materials from the high-mountainous dragon-stone site of Karmir Sar (Armenia) (*R. Hovsepyan, W. H. Schoch, P. Hnila, A. Gilibert, I. Gabrielyan, A. Bobokhyan*)
24. The luxurious lives of lords and ladies. Animal remains and their spatial distribution at Huis ter Kleef (c. 1250-1573 AD) (*L.M.A. van Hees, E. Esser, T. Hoogendijk, W. Van Neer, W. Wouters, J.T. Zeiler, W. Prummel*)
25. The Early Neolithic Swifterbant farmers of Medel-De Roeskamp (Nederland) (*E. Esser, L. van Hees, W. Van Neer, W. Wouters, T.J. ten Anscher, L.M. Kootker, J.T. Zeiler, and others*)
26. The first preliminary results of a taphonomic study of wild resources (*B. Garay-Palacios, M. Berihuete-Azorín, I. Esposito*)

17.30-18.45

Session 5: Environmental Archaeology Storytelling – Chairs: *E. Allué & F. Riso*

1. BE MY POV – The Life of a Researcher. Communicating a project in Archaeobotany to the public (*C. Speciale*)

2. The Late Chalcolithic vegetal fibres at Tell Yunatsite, Southern Bulgaria (*M. Andonova-Katsarski, Y. Katreva, K. Boyadziev, E. Marinova-Wolff, Y. Boyadziev*)
3. Pottery Use and Starchy Foods During the Shuangdun Culture (ca.7.3–6.8 Ka BP) in the Middle Catchment of the Huai River, China (*W. Li*)
4. Early Trypillian soils and the environmental logic towards the Eneolithic para-urbanization in the Central Ukraine (*D. Kiosak, Z. Matviishyna*)
5. Modern Experimental Cultivations and Charring Experiments of Barley; Methods, Preliminary Results, Challenges and Possibilities (*A. E.T. Kriti, A. Livarda, H. A. Orengo, E. Ninou, I. Mylonas*)

Discussion

6. The Roman Empire's western fringe through the lens of Archaeobotany: changes in landscape and agriculture and its relation with political and economic trends (*C. Magalhães, L. Seabra, J. Tereso*)
7. Investigating the emergence and development of urban centres in the Roman Empire through the trade of food plants (*P. Vandorpe, A. Livarda, H. A. Orengo, Th. Baniou, I. Berganzo, F. Riso*)
8. Howling at the moon: weaving native narratives, ecological concerns and zooarchaeological data (*J. Morris, J. Jones, D. Robinson*)
9. How well do you know your cow? (*S. Stallibrass*)

Discussion

18.45-20.00 AGM (AEA meeting for members)

21.00 GALA DINNER (prior reservation required)

Sunday 26th November

8.00-8.30 Registration - Opening

8.30-9.45

Session 6: Exploring ancient agriculture and plant use – Chairs: *N. Alonso & C. Diffey*

1. Multicropping Pattern Reveals Human Adaptation at the Wanbei Site (ca. 5.7–4.4 ka cal. BP) in the Middle and Lower Huai River Valley, China (*W. Tian, W. Luo, Y. Yang, H. Gan, Z. Cheng, Y. Sun, D. Zhang, L. Lin, J. Zhang*)
2. Harvesting the past: Uncovering Agricultural Knowledge at Bjerre, Thy (*F. Walker-Friedrichs*)
3. The role of archaeobotanical material in better understanding transitional periods: the case of Chalcolithic Cyprus (*K. Tsirtsi, G. Kasapidou, P. Koullourou, E. Margaritis*)
4. New crops arriving in the Western Catalan Plain (Catalonia, Spain): human mobility and the circulation of plants and food products from the origin of agriculture to medieval times (*N. Alonso, M. Tarongí*)
5. Cultivating the big islands of the Mediterranean: agriculture, farming and urbanization in Bronze Age Crete and Cyprus (*E. Margaritis, C. Henkel, K. Tsirtsi*)
6. How many pieces do we need to start the puzzle? Human-environment interaction in Serbia through The Middle Ages and plant macro remains (*A. Smuk*)

Discussion

9.45-10.50

Session 7: Waterscapes tales – Chairs: G. Apostolou & R. Banerjea

1. Taming the sea. A multi-proxy investigation of Mediterranean Stone Age aquatic technologies (*Chr. Papoulia*)
2. Vegetation dynamics and land-use history during the Holocene in Corsica. Regional trends and local landscapes in coastal wetlands through the application of the Landscape Reconstruction Algorithm (*J. Revelles, R. Fyfe, F. Di Rita, A. Currás, M. Ghilardi*)
3. A race to the sea? New geoarchaeological evidence to rethink the history of the ancient Abdera (Gr.) and its harbour (*A. Mayoral, A. García-Molsosa, A. Ejarque, M. Georgiadis, C. Kallintzi, E. Kefalidou, G. Trasanis, N. Papadopoulos, G. Apostolou, V. Gaertner, H. A. Orengo, J.-M. Palet*)
4. Entangled in the water: geoarchaeology of Venice Lagoon during Roman times (*A. Bivolaru, D. Cottica, D. Calaon, C. Morhange*)

Discussion

10.50-11.20 COFFEE BREAK

11.20-12.30

Session 8: From the woods to the garden: systems of plant resource management – Chairs: V. Pescini & Ramón Buxó

1. Exploring Human-Woodland Interactions in Hellenistic and early Roman Greece: Insights from Wood Charcoal Analysis in Ancient Corinth (*P. Koullouros, E. Margaritis, M. Madella, G. Sanders*)
2. Disentangling fuel use in ancient Iberian Cesetania through integrated high-resolution approaches (Tarragona, Spain, 5th-3rd century BC) (*A. Gomar, M. Portillo, M. Mateu, V. Pescini, S. Vila, M. C. Belarte*)
3. Forestry practices and arboriculture at the Roman sites of lesso and Vilauba (Catalonia, Spain) (*E. M. López Castillo, R. Piñé Huerta, O. López-Bultó, A. Berrocal Barberà, P. Castanyer, J. Pera, E. Rodrigo*)
4. Multidisciplinary bioarchaeology for the recovery of the vegetable garden of Pedralbes Monastery (Clear order, Barcelona) (*S. Riera, A. Castellano, J. Cruells, S. Bianco, J. Nadal, L. Lloveras, N. Alonso, M. Tarongí, V. Bros, A. Burget*)

Discussion

12.30-13:40

Session 9: Bioarchaeological approaches to environmental and climate change – Chairs: A. Kriti & H. Orengo

1. A Late Pleistocene Eastern Mediterranean palaeoclimate record based on stable carbon isotopes ($\Delta^{13}\text{C}$) of archaeological almond charcoal: new data from the Epipalaeolithic sequence of Ein Qashish South and el-Wad Terrace, northern Israel (*C. Belli, M. Weinstein-Evron, V. Caracuta, D. Nadel, R. Yeshurun, L. Regev, E. Boaretto, A. Yaroshevich*)
2. Paleoenvironmental reconstruction from archaeological pollen data: could AI tell stories about what the landscape looked like? (*E. Paperini, C. Sciuto, G. Gattiglia*)
3. Archaeobotany in an era of change and challenge: fruits of the past, seeds for the future (*M. Berihuete-Azorín, C. Kerfant, E. Allué, A. Burguet-Coca, F. Burjachs, I. Expósito, T. Fernández-Iriarte, B. Garay, J. Revelles, A. Robledo, D. Rodríguez-Antón, C. Speciale*)
4. Scaling up phytolith analysis using Artificial Intelligence; human-environment interactions during the Holocene in the Llanos de Moxos, Bolivia (*K. Dudgeon, B. Urbistondo Letamendia, U. Lombardo*)

Discussion

13.40-14.00 Closure (poster prize and farewell)

14.00-15.30 LUNCH

16.00 -18.00 Guided tour through Roman Tarragona (Optional. Prior registration required)