

EAA

2021 Kiel, 6-11 Sept.

Widening Horizons

Virtual Meeting

SESSIONS

EAA 
2021 Kiel, 6-11 Sept.
Widening Horizons

ORGANISERS



27th EAA Annual Meeting (Kiel Virtual, 2021) - Sessions

Names, titles and affiliations are reproduced as submitted by the session organisers and/or authors. Language and wording were not revised.

Technical editing: Kateřina Kleinová (EAA)

Design and layout: Kateřina Kleinová (EAA)

Design cover page: Janine Cordts (Institut für Ur- und Frühgeschichte Universität Kiel)

European Association of Archaeologists

Prague, June 2021

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Tuesday 7 September 2021

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251 IMPR - PHYTOLITH IDENTIFICATION, CLASSIFICATION AND MORPHOMETRY

Time: 14:30 - 18:30 CEST, 7 September 2021

Theme: 1. Widening horizons through human-environment interconnections

Format: Regular session

Organisers: Out, Welmoed (Moesgaard Museum) - Vrydaghs, Luc (Maritime Cultures Research Institute, MARI - VUB)

ABSTRACTS

14:30 INTRODUCTION

14:45 PHYTOLITH NOMENCLATURE AND TAXONOMY
Neumann, Katharina (Goethe-Universität)

15:15 AN ATTEMPT TO CHARACTERIZE ARTEMISIA SPECIES ON THE BASIS OF PHYTOLITHS
Attolini, Davide (Laboratory of Palinology and Archaeobotany - DISTAV, University of Genova; Department of Antiquities, Philosophy and History - DAFIST, University of Genova) - Caracciolo, Daniela (Regional Agency for the Protection of the Environment - Liguria - ARPAL) - Montanari, Carlo (Laboratory of Palinology and Archaeobotany - DISTAV, University of Genova)

15:30 PHYTOLITHS FROM PLANTS OF THE CERRADO - THE BRAZILIAN SAVANNA
Dias, Raphaella (Universidade Federal Fluminense) - Coe, Heloisa (Universidade Federal Fluminense; Universidade do Estado do Rio de Janeiro) - Vasconcelos, Alessandra (Universidade Federal dos Vales de Jequitinhonha e Mucuri) - de Carvalho, Alex (Universidade Federal de Minas Gerais) - Mendonça Filho, Carlos (Universidade Federal dos Vales de Jequitinhonha e Mucuri) - Chueng, Karina (Universidade Federal Fluminense) - Ricardo, Sarah (Universidade Federal do Rio de Janeiro - Museu Nacional) - de Sousa, Leandro (Universidade Federal Rural do Semi-árido)

15:45 CONTRIBUTION TO REFERENCE COLLECTIONS OF PHYTOLITHS FROM CAATINGA PLANTS: A CASE STUDY IN THE SERRA DE URUBURETAMA, CEARÁ, BRAZIL
Aguiar, Antônia (CaSEs - Culture and Socio-Ecological Dynamics research group. Departament d'Humanitats, Universitat Pompeu Fabra; Universidade Estadual do Ceará, Departamento de Humanidades) - Coe, Heloisa (Universidade Estadual do Rio de Janeiro - UERJ) - Madella, Marco (CaSEs - Culture and Socio-Ecological Dynamics research group. Departament d'Humanitats, Universitat Pompeu Fabra; ICREA - CaSEs, Departament of Humanities, Universitat Pompeu Fabra) - Sousa, Leandro (Universidade Federal Rural do Semi-Árido, Departamento de Biociências) - Ruiz-Pérez, Javier (CaSEs - Culture and Socio-Ecological Dynamics research group. Departament d'Humanitats, Universitat Pompeu Fabra) - Gomes, Jenifer (Universidade Federal Fluminense) - Gomes, Emily (Universidade Estadual do Rio de Janeiro - UERJ) - Almeida, Iaponan (Universidade Estadual de Pernambuco) - Cruz, Maria (Universidade Estadual do Ceará, Departamento de Humanidades)

16:00 DISCUSSION SLOT

16:30 USING RONDELS IN BOP CLADE POACEAE TO BETTER RESOLVE CERTAIN TAXA AND HABITATS OF THE TEMPERATE ZONE: A PROPOSED CLASSIFICATION
Blinnikov, Mikhail (St Cloud State University; Kazan Federal University)

16:45 GEOMETRIC MORPHOMETRICS AS A TOOL FOR ANALYSIS OF GRASS PHYTOLITH SHAPE EVOLUTION
Hošková, Kristýna - Herben, Tomáš - Neustupa, Jiří (Department of Botany, Faculty of Sciences, Charles University in Prague) - Pokorná, Adéla (Department of Botany, Faculty of Sciences, Charles University in Prague; Institute of Archaeology, Czech Academy of Sciences, Prague) - Pokorný, Petr (Center for Theoretical Study, Joint Research Institute of Charles University and Czech Academy of Sciences)

17:00 AUTOMATED, QUANTITATIVE IMAGING ANALYSIS OF GRASS SILICA (PHYTOLITH) FOSSILS: A TOOL TO SHED LIGHT ON GRASS EVOLUTION AND DOMESTICATION
Stromberg, Caroline (University Of Washington) - Gallaher, Timothy (University of Washington; Bishop Museum, Hawai'i) - Akbar, Sultan - Jessett, Kari (University of Washington) - Klahs, Philip (Iowa State University) - Marvet, Claire - Senske, Ashly - Zard, Kailyn - Zender, Callie (University of Washington) - Clark, Lynn (Iowa State University)

17:15 DISCUSSION SLOT



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- 17:30** **TESTING QUANTITATIVE APPROACHES FOR PHYTOLITH MORPHOTYPE SHAPE DESCRIPTION AND CLASSIFICATION FOR CALIFORNIAN GRASSES**
Evett, Rand (Department of Environmental Science, Policy, and Management, University of California, Berkeley)
- 17:45** **OAT CHAFF IDENTIFICATION BASED ON PHYTOLITH MORPHOLOGY AND MORPHOMETRY: A VIKING-AGE EQUESTRIAN BURIAL AT FREGERSLEV, DENMARK**
Out, Welmoed (Moesgaard Museum, Department of Archaeological Science and Conservation) - Portillo, Marta (Department of Archaeology and Anthropology, Archaeology of Social Dynamics - 2017SGR 995, Institució Milà i Fontanals - IMF, Spanish National Research Council - CSIC, Barcelona) - Schifter Bagge, Merethe (Museum Skanderborg)
- 18:00** **TOWARDS FAIR PHYTOLITH DATA - FIRST STEPS DOWN A LONG AND WINDING ROAD**
Karoune, Emma (The Alan Turing Institute) - García-Granero, Juan José (Spanish National Research Council) - Ruiz-Pérez, Javier - Madella, Marco - Lancelotti, Carla (Universitat Pompeu Fabra)
- 18:15** **DISCUSSION SLOT + POSTERS**

POSTERS:

- A. NEW METHODS TO REDUCE THE UNCERTAINTY IN MICROARCHEOLOGY**
Andreu Díez, Oriol (University of Barcelona) - Albert Cristóbal, Rosa Maria (ICREA; University of Barcelona) - Boaretto, Elisabetta (Weizmann Institute of Science) - Pellicer Moscardó, Jaume (Institut Botànic de Barcelona - CSIC)
- B. PHYTOLITH CLASSIFICATION USING DEEP LEARNING: IMPLEMENTATION OF A U-NET NEURAL NETWORK FOR MORPHOTYPE IMAGE-SEGMENTATION**
Andriopoulou, Nafsika - Petrakis, George - Partsinevelos, Panagiotis (School of Mineral Resources Engineering, Technical University of Crete)

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Wednesday 8 September 2021
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256 IMPR – PHYTOLITHS BIOGEOCHEMISTRY - FROM PHYTOLITHS FORMATION AND ROLE IN MODERN PLANTS TO NEW PROXIES FOR ARCHAEOLOGY AND PALAEOECOLOGY

Time: 11:00 - 16:30 CEST, 8 September 2021

Theme: 1. Widening horizons through human-environment interconnections

Format: Regular session

Organisers: Dreibrodt, Stefan - Dal Corso, Marta (Kiel University) - Chevalier, Alexandre (Royal Institute of Natural Sciences)

ABSTRACTS

- 11:00 PHYTOLITH CHEMISTRY: WHAT WE KNOW AND WHAT WE DON'T
Hodson, Martin (Oxford Brookes University)
- 11:30 ELEMENTAL COMPOSITION OF CENTRAL EUROPEAN TREE LEAVES DELIVERS HINTS TO ENVIRONMENTAL SETTINGS, BIOGEOCHEMICAL CYCLING AND SOIL FORMATION
Dreibrodt, Stefan (Kiel University, CRC1266)
- 11:45 DISCUSSION SLOT
- 12:00 PHYTOLITH PRODUCTION IN TWO DIFFERENT ENVIRONMENTS IN SOUTHEASTERN BRAZIL
Ricardo, Sarah (National Museum of Brazil - Federal University of Rio de Janeiro) - Coe, Heloisa (University of the State of Rio de Janeiro, Brazil) - Alves, Ruy (National Museum of Brazil - Federal University of Rio de Janeiro)
- 12:15 PHYTOLITHS IN FERNS: CYATHEA DELGADII STERNB. AND PTERIDIUM ARACHNOIDEUM (KAULF.) MAXON FROM DIFFERENT ENVIRONMENTS
Ricardo, Sarah (National Museum of Brazil - Federal University of Rio de Janeiro) - Coe, Heloisa (University of the State of Rio de Janeiro) - Alves, Ruy (National Museum of Brazil - Federal University of Rio de Janeiro)
- 12:30 PHYTOLITH PRESERVATIONS IN MODERN AND FOSSIL DEPOSITS FROM PERMAFROST IN THE KOLYMA LOWLAND
Zanina, Oksana (Institute of Physicochemical and Biological Problems in Soil Science RAS)
- 12:45 DISCUSSION SLOT
- 14:30 SILICON STABLE ISOTOPES IN PHYTOLITHS: A TOOL TO ASSESS WATER AVAILABILITY? PRELIMINARY RESULTS OF LASER ABLATION ANALYSIS OF EXPERIMENTAL CROPS
Lancelotti, Carla (CaSEs Research Group, Department of Humanities, Universitat Pompeu Fabra; ICREA) - Frick, Daniel (GFZ German Research Centre for Geosciences, Earth Surface Geochemistry) - D'Agostini, Francesca (CaSEs Research Group, Department of Humanities, Universitat Pompeu Fabra; CERES team. DIADE – Diversity and Adaptation and Development of plant Group, Université de Montpellier) - Varalli, Alessandra - Ruiz-Pérez, Javier (CaSEs Research Group, Department of Humanities, Universitat Pompeu Fabra) - Madella, Marco (CaSEs Research Group, Department of Humanities, Universitat Pompeu Fabra; ICREA) - Vadez, Vincent (IRD – Institut de Recherche pour le Développement. Université de Montpellier, UMR DIADE, BP; ICRISAT – International Crops Research Institute for Semi-Arid Tropics. Patancheru) - Kholova, Jana (ICRISAT – International Crops Research Institute for Semi-Arid Tropics. Patancheru)
- 15:00 UNDERSTANDING THE RELATIONSHIP BETWEEN THE PHYSIOLOGY OF WATER TRANSPORT AND PHYTOLITHS PRODUCTION IN SELECTED C4 CROPS: AN EXPERIMENTAL APPROACH
D'Agostini, Francesca (CaSEs – Culture and Socio-Ecological Dynamics Research Group. Departament d'Humanitats, Universitat Pompeu Fabra; CERES team. DIADE – Diversity and Adaptation and Development of plant Group, Université de Montpellier) - Vadez, Vincent (CERES team. DIADE – Diversity and Adaptation and Development of plant Group, Université de Montpellier; IRD – Institut de Recherche pour le Développement. Marseille; ICRISAT – International Crops Research Institute for Semi-Arid Tropics. Patancheru) - Kholova, Jana (ICRISAT – International Crops Research Institute for Semi-Arid Tropics. Patancheru) - Ruiz-Pérez, Javier (CaSEs – Culture and Socio-Ecological Dynamics Research Group. Departament d'Humanitats, Universitat Pompeu Fabra) - Madella, Marco (CaSEs – Culture and Socio-Ecological Dynamics Research Group. Departament d'Humanitats, Universitat Pompeu Fabra; ICREA – Catalan Institution for Research and Advanced Studies; Department of Geography, Archaeology and Environmental Studies, University of Witwatersrand) - Lancelotti, Carla (CaSEs – Culture and Socio-Ecological Dynamics Research Group.



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Departament d'Humanitats, Universitat Pompeu Fabra; ICREA – Catalan Institution for Research and Advanced Studies)

15:15 DISCUSSION SLOT

15:30 WHAT DO WE KNOW ABOUT HEATED PHYTOLITHS BECOMING AUTO-FLUORESCENT?

Hodson, Martin (Oxford Brookes University) - Devos, Yannick - Hermans, Rosalie (MARI, Vrije Universiteit Brussel) - Segato, Tiriana - Delplancke, Marie-Paule (4MAT, Université Libre de Bruxelles) - Chevalier, Alexandre (Royal Belgian Institute of Natural Sciences, Brussels) - Vrydaghs, Luc (MARI, Vrije Universiteit Brussel)

15:45 IT IS ABOUT TIME: FOUR CONSIDERATIONS IN STUDYING PHYTOLITH EVOLUTIONARY HISTORY

Katz, Ofir (Dead Sea and Arava Science Center)

16:00 DISCUSSION SLOT + POSTERS

POSTERS:

A. ASSESSING PHYTOLITH PRODUCTION IN MEDITERRANEAN HERBS

García-Granero, Juan José (Spanish National Research Council - IMF-CSIC; University of Oxford) - Patús, Cristina (University of Barcelona)

B. LEAF PHYTOLITHS PRODUCTION IN PLANTS OF UPPER MONTANE RAIN FOREST (ATLANTIC FOREST BIOME) - BRAZIL

Mozer, Jonathan (PPG- Geography, UNIOESTE, Marechal Cândido Rondon) - Calegari, Marcia (Geography Collegiate, UNIOESTE, Marechal Cândido Rondon) - Vidal Torrado, Pablo (Department of Soil Science, ESALQ/USP, Piracicaba) - Madella, Marco (CaSEs Research Group, Department of Humanities, Pompeu Fabra University) - Macedo, Rodrigo (Instituto Nacional do Semiárido, Campina Grande) - de Souza, Erica (PPG- Geography, UNIOESTE, Marechal Cândido Rondon)

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Thursday 9 September 2021
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326 EVERYTHING YOU ALWAYS WANTED TO KNOW ABOUT PHYTOLITHS (BUT WERE AFRAID...): THEIR CONTRIBUTION TO THE MODELING OF PAST HUMAN BEHAVIOR

Time: 14:30 - 17:30 CEST, 9 September 2021

Theme: 5. Assembling archaeological theory and the archaeological sciences

Format: Regular session

Organisers: Chevalier, Alexandre (Royal Institute of Natural Sciences) - Albert, Rosa María (University of Barcelona)

ABSTRACTS

- 14:30 INTRODUCTION
- 14:45 SILICEOUS MICROREMAINS, GEOCHEMICAL MAGNETIC AND MINERALOGICAL ANALYSES OF CORE MATERIAL FROM KILOMBE CALDERA (KENYA), PROXY QUATERNARY PALAEOENVIRONMENT, CONTEXTUALISING HOMININ OCCUPATION
Albert, Rosa Maria (ICREA - Catalan Research for Research and Advanced Studies; Dep. of History and Archaeology, University of Barcelona) - Hoare, Sally - Stanistreet, Ian - Gowlett, John (University of Liverpool, ACE) - Stollhofen, Harald (GeoZentrum Nordbayern, Friedrich-Alexander-University - FAU, Erlangen)
- 15:00 ARCHAEOBOTANICAL TAPHONOMY AND ARCHAEOLOGICAL INTERPRETATION. PHYTOLITH, SEED, AND CHARCOAL REMAINS FROM THE EARLY UPPER PALAEOLITHIC SITE OF MUGHR EL-HAMAMAH (JORDAN)
Alonso-Eguiluz, Mónica (ERAAUB Equip de Recerca Arqueològica i Arqueomètrica de la Universitat de Barcelona) - Albert, Rosa María (ICREA Research Professor; ERAAUB Equip de Recerca Arqueològica i Arqueomètrica de la Universitat de Barcelona) - White, Chantel E. (University of Pennsylvania) - Asouti, Eleni (University of Liverpool) - Boaretto, Elisabetta (Kimmel Center for Archaeological Science - Weizmann Institute of Science) - Nilsson Stutz, Liv (Linnaeus University) - Stutz, Aaron (Bohusläns Museum)
- 15:15 MICROBIOMORPHIC (PHYTOLITH) ANALYSIS IN THE GEOARCHAEOLOGICAL STUDY AT THE VOORTHUIZEN-WIKSELAARSEWEG ARCHAEOLOGICAL SITE (NETHERLANDS)
van den Berghe, Kasper (Herzen State University; FindX) - Druzhinina, Olga (Herzen State University) - Golyeva, Alexandra (Institute of Geography RAS)
- 15:30 THE CONTRIBUTION OF PHYTOLITHS TO THE UNDERSTANDING OF THE HUMAN ACTIVITIES ENTANGLED IN THE EN POTTERY OF NORTHERN GREECE
Papadakou, Trisevgeni (Aristotle University of Thessaloniki) - Tsartsidou, Georgia (Ephorate of Palaeoanthropology-Speleology, Hellenic Ministry of Culture, Athens; The M.H. Wiener Laboratory for Archaeological Science, ASCSA) - Papadopoulou, Lambrini (Geology Department, Aristotle University of Thessaloniki) - Kotsakis, Kostas - Valamoti, Soutana-Maria (Department of Archaeology, Aristotle University of Thessaloniki) - Urem-Kotsou, Dusanka-Christina (Department of History and Ethnology, Democritus University of Thrace)
- 15:45 THE BUDDING OF PLANT MICROFOSSIL RESEARCH IN ESTONIA
Unt, Agnes - Niinesalu, Maris - Johanson, Kristiina (University of Tartu)
- 16:00 COLONIAL ERA AND AFRICAN-AMERICAN SLAVE FEATURES IN SOUTH CAROLINA: A RECORD FOR COMPARISON
Scott Cummings, Linda (PaleoResearch Institute)
- 16:15 NEW METHODS TO REDUCE THE UNCERTAINTY IN MICROARCHAEOLOGY
Andreu Diez, Oriol (University of Barcelona) - Albert Cristóbal, Rosa Maria (ICREA; Universitat de Barcelona) - Boaretto, Elisabetta (Weizmann Institute of Science) - Pellicer Moscardó, Jaume (Institut Botànic de Barcelona - CSIC)
- 16:30 DISCUSSION SLOT

340 IMPR - PHYTOLITHS AS A PROXY FOR PALAEOENVIRONMENTAL RECONSTRUCTION

Time: 14:30 - 18:30 CEST, 9 September 2021

Theme: 1. Widening horizons through human-environment interconnections

Format: Regular session

Organisers: Peto, Ákos (Hungarian University of Agricultural and Life Sciences) - Kirleis, Wiebke (Kiel University, Institute of Prehistoric and Protohistoric Archaeology)

ABSTRACTS

- 14:30 **PHYTOLITHS AS PALEOENVIRONMENTAL INDICATORS IN AFRICA AND EARLY HUMAN EVOLUTION: THE GOOD, THE BAD, AND THE UGLY**
Barboni, Doris (CEREGE - Aix Marseille University, CNRS, IRD, INRAE, Coll.France)
- 15:00 **EARLY GRASS PALEOECOLOGY IN THE PALEOCENE-EOCENE OF THE SAN JORGE BASIN, ARGENTINE PATAGONIA**
Stiles, Elena - Strömberg, Caroline (University of Washington; Burke Museum of Natural History and Culture) - Erra, Georgina (CONICET - Museo de La Plata, Geociencias) - Gelfo, Javier - Goin, Francisco (CONICET - Museo de La Plata, División Paleontología Vertebrados) - Kohn, Matthew (Boise State University, Geosciences) - Madden, Richard (University of Chicago, Org.Bio./Anatomy) - Trayler, Robin (UC Merced, Natural Sciences) - Bauza, Nicolas (CONICET - Museo de La Plata, División Paleontología Vertebrados; Universidad Nacional de La Plata) - Gallaher, Timothy (University Of Washington, Biology; Bernice Pauahi Bishop Museum)
- 15:15 **PALEOECOLOGICAL FUNCTIONS OF SHAFTS OF THE DYAKOV CULTURE (EARLY IRON AGE) IN THE MOSCOW REGION (RUSSIA)**
Golyeva, Alexandra - Koval, Vladimir (Institute of Archaeology RAS) - Syrovatko, Aleksandr (Archaeological centre of Kolomna, Moscow region)
- 15:30 **DISCUSSION SLOT**
- 15:45 **PALEOENVIRONMENTAL RECONSTRUCTION OF CONDITIONS RELATED TO THE OCCURRENCE OF STONE LINES IN PARAÍBA DO SUL VALLEY, SOUTHEASTERN BRAZIL**
Coe, Heloisa Helena (University of the State of Rio de Janeiro; Fluminense Federal University) - Seixas, Amanda (Fluminense Federal University) - da Silva, André Luiz (University of the State of Rio de Janeiro) - Lepsch, Igo Fernando (University of the State of São Paulo) - Parolin, Mauro (University of the State of Paraná) - Macario, Kita (Fluminense Federal University)
- 16:00 **PALAEOENVIRONMENTAL RECONSTRUCTION OF THE PARAÚNA RIVER BASIN, MINAS GERAIS, BRAZIL, THROUGH PHYTOLITHS**
Dias, Raphaella (Universidade Federal Fluminense) - Coe, Heloisa (Universidade Federal Fluminense; Universidade do Estado do Rio de Janeiro) - Vasconcelos, Alessandra (Universidade Federal dos Vales do Jequitinhonha e Mucuri) - de Carvalho, Alex (Universidade Federal de Minas Gerais) - Chueng, Karina - Macario, Kita (Universidade Federal Fluminense)
- 16:15 **DISCUSSION SLOT**
- 16:30 **PALEOENVIRONMENT AND CLIMATE EVOLUTION RECONSTRUCTION FOR THE LAST 11KA YEARS ON THE COASTAL PLAIN OF SOUTHERN BRAZIL THROUGH MULTI-PROXY ANALYSIS**
Trein Salgado, Eduardo - Pimentel Mizusaki, Ana Maria (UFRGS) - Ferreira Chueng, Karina (UFF) - Gomes Coe, Heloisa Helena (UFF; UERJ) - Cardoso Pacheco Evaldt, Andréia - Girardi Bauermann, Soraia (ULBRA)
- 16:45 **PALEOENVIRONMENTAL RECONSTRUCTION OF THE NORTHERN COAST OF RIO DE JANEIRO, BRAZIL, THROUGH SILICA BIOMINERALIZATIONS**
Coe, Heloisa Helena (University of the State of Rio de Janeiro; Fluminense Federal University) - Gomes, Jenifer (Fluminense Federal University) - Gomes, Emily (University of the State of Rio de Janeiro)



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- 17:00** **PHYTOLITH ANALYSIS INDICATES GRASS COMMUNITY CHANGE BETWEEN THE MIDDLE MIOCENE AND THE EARLY PLIOCENE IN THE CENTRAL ANDEAN ALTIPLANO (PERU)**
Crifò, Camilla - Bremond, Laurent (Institut des Sciences de l'Evolution de Montpellier - ISEM, EPHE, PSL Research University, Université de Montpellier, CNRS, IRD) - Jaramillo, Carlos (Smithsonian Tropical Research Institute; Institut des Sciences de l'Evolution de Montpellier - ISEM, EPHE, PSL Research University, Université de Montpellier, CNRS, IRD) - Strömberg, Caroline (Department of Biology and Burke Museum of Natural History and Culture, University of Washington)
- 17:15** **DISCUSSION SLOT**
- 17:30** **FLABELLATE PHYTOLITHS IN AQUATIC AND TERRESTRIAL ENVIRONMENTS: AN EXPLORATION OF MORPHOLOGY, MORPHOMETRY AND ENVIRONMENTAL ASSOCIATIONS**
Cordova, Carlos (Oklahoma State University)
- 17:45** **MARINE PHYTOLITH: PAST, PRESENT AND FUTURE**
Thilakanayaka, Vidusanka (Key Laboratory of Ocean and Marginal Sea Geology, South China Sea Institute of Oceanology, Innovation Academy of South China Sea Ecology and Environmental Engineering, Chinese Academy of Sciences; University of Chinese Academy of Sciences; National Institute of Fundamental Studies; Department of Oceanography and Marine Geology, Faculty of Fisheries and Marine Sciences and Technology, University of Ruhuna) - Chuanxiu, Luo (Key Laboratory of Ocean and Marginal Sea Geology, South China Sea Institute of Oceanology, Innovation Academy of South China Sea Ecology and Environmental Engineering, Chinese Academy of Sciences; University of Chinese Academy of Sciences; Southern Marine Science and Engineering Guangdong Laboratory) - Madella, Marco (Department of Humanities - CaSEs, University Pompeu Fabra; ICREA; School of Geography, Archaeology and Environmental Studies, The University of the Witwatersrand) - Herath, Dileep B. - Bandara, Gayan (Key Laboratory of Ocean and Marginal Sea Geology, South China Sea Institute of Oceanology, Innovation Academy of South China Sea Ecology and Environmental Engineering, Chinese Academy of Sciences; University of Chinese Academy of Sciences; Department of Oceanography and Marine Geology, Faculty of Fisheries and Marine Sciences and Technology, University of Ruhuna)
- 18:00** **DISCUSSION SLOT + POSTERS**

POSTERS:

- A. PHYTOLITH (MICROBIOMORPHIC) ANALYSIS IN THE CURONIAN LAGOON (SOUTHEASTERN BALTIC) BOTTOM SEDIMENTS STUDY**
Druzhinina, Olga (Herzen State University; Institute of Oceanology RAS) - Golyeva, Alexandra (Institute of Geography RAS) - Napreenko, Maxim (Institute of Oceanology RAS) - Napreenko - Dorokhova, Tatiana - Sosnina, Irina (Institute of Oceanology RAS; Immanuel Kant Baltic Federal University)
- B. PALEOENVIRONMENTAL RECONSTITUTION OF THE HEADWATERS OF THE ARAÇUAÍ RIVER, SOUTHERN ESPINHAÇO MOUNTAIN RANGE, MINAS GERAIS, BRAZIL**
Machado, David (Universidade Estadual de Campinas, Instituto de Geociências, Programa de Pós-graduação em Geografia) - Chueng, Karina (Universidade Federal Fluminense, Instituto de Geociências, Programa de Pós-graduação em Dinâmica da Terra e dos Oceanos) - Coe, Heloisa Helena (Universidade Federal Fluminense, Instituto de Geociências, Programa de Pós-graduação em Dinâmica da Terra e dos Oceanos; Universidade do Estado do Rio de Janeiro, Faculdade de Formação de Professores, Departamento de Geografia) - Silva, Alexandre (Universidade Federal do Vales Jequitinhonha e Mucuri, Faculdade de Ciências Agrárias, Departamento Engenharia Florestal) - Costa, Camila (Universidade Federal do Vales Jequitinhonha e Mucuri, Faculdade de Ciências Agrárias, Departamento de Produção Vegetal)
- C. PALEOENVIRONMENTAL RECONSTRUCTION OF THE ARCHAEOLOGICAL AREA OF SERRA NEGRA, ESPINHAÇO MOUNTAIN RANGE, MINAS GERAIS, BRAZIL**
Chueng, Karina (Federal Fluminense University) - Coe, Heloisa Helena (University of the State of Rio de Janeiro; Federal Fluminense University) - Fagundes, Marcelo - Vasconcelos, Alessandra (Federal dos Vales do Jequitinhonha e Mucuri University) - Ricardo, Sarah (Nacional Museum Rio de Janeiro Federal University) - Machado, David (Campinas State University)



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- D. PALEOENVIRONMENTAL RECONSTRUCTION THROUGH PHYTOLITH ANALYSIS IN THE CASA DA PEDRA SHELLMOUND ARCHAEOLOGICAL SITE, SÃO FRANCISCO DO SUL, SANTA CATARINA, BRAZIL**
Machado, David (Universidade Estadual de Campinas, Instituto de Geociências, Programa de Pós-graduação em Geografia) - Coe, Heloisa (Universidade do Estado do Rio de Janeiro, Faculdade de Formação de Professores, Departamento de Geografia; Universidade Federal Fluminense, Instituto de Geociências, Programa de Pós-graduação em Dinâmica da Terra e dos Oceanos) - Bandeira, Dione (Programa de Pós-graduação em Patrimônio Cultural e Sociedade - Universidade da Região de Joinville; Museu Arqueológico de Sambaqui de Joinville) - Souza, Rosa (Universidade Federal Fluminense, Instituto de Física) - Rasbold, Giliane (Centro de Energia Nuclear na Agricultura - CENA - Universidade de São Paulo - USP) - Chueng, Karina (Universidade Federal Fluminense, Instituto de Geociências, Programa de Pós-graduação em Dinâmica da Terra e dos Oceanos) - Dias, Raphaella (Universidade Federal Fluminense, Instituto de Geociências, Programa de Pós-graduação em Dinâmica da Terra e dos Oceanos) - Ferreira, Jessica - Voss, Celso - de Sa, Julio Cesar (Programa de Pós-graduação em Patrimônio Cultural e Sociedade - Universidade da Região de Joinville)
- E. PALEOENVIRONMENTAL CONDITIONS OF THE MARICÁ COASTAL PLAIN, SOUTH-EASTERN BRAZIL, DURING THE HOLOCENE THROUGH SILICA BIOMINERALIZATIONS**
Santos, Cátia - Coe, Heloisa - da Silva, André Luiz (Universidade do Estado do Rio de Janeiro) - Osterrieth, Margarita (Universidad Nacional de Mar del Plata) - Parolin, Mauro (Universidade Estadual do Paraná) - Pamplona, Fábio (Universidade Federal Rural da Amazônia) - Souza, Rosa - Macario, Kita (Universidade Federal Fluminense)
- F. PALEOBIOGEOCLIMATIC RECONSTITUTION THROUGH PHYTOLITH ANALYSIS OF THE MONTE CRISTO CAVE, MINAS GERAIS, BRAZIL**
Chueng, Karina (Federal Fluminense University) - Coe, Heloisa Helena (University of the State of Rio de Janeiro; Federal Fluminense University) - Vasconcelos, Alessandra (Federal dos Vales do Jequitinhonha e Mucuri University)

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Friday 10 September 2021

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246 **IMPR – PHYTOLITHS IN INTEGRATED ARCHAEOBOTANICAL AND ETHNOARCHAEOLOGICAL STUDIES**

Time: 9:00 - 18:00 CEST, 10 September 2021

Theme: 1. Widening horizons through human-environment interconnections

Format: Regular session

Organisers: Dal Corso, Marta (Kiel University) - Out, Welmoed (Moesgaard Museum)

ABSTRACTS

- 9:00 **TRACES OF LIFE: INTEGRATING PHYTOLITH AND ETHNOARCHAEOLOGICAL ANALYSIS IN LEVANTINE SITES**
Jenkins, Emma (Bournemouth University)
- 9:30 **THE USE OF PHYTOLITHS ANALYSIS FOR THE INTERPRETATION OF THE CONTENT OF POTTERY: AN EXPLORATORY STUDY OF AFRICAN ETHNOGRAPHIC SAMPLES**
Garnier, Aline (University of Paris East; Laboratory of Physical Geography CNRS - UMR 8591) - Mayor, Anne (University of Geneva) - Vieugué, Julien (CNRS - Prétech UMR 7055) - Fichet, Valentine (Laboratory of Physical Geography CNRS - UMR 8591) - De Milleville, Lucile (Laboratory of Physical Geography CNRS - UMR 8591) - Regert, Martine - Drieu, Léa - Mazuy, Arnaud (CNRS - CEPAM UMR 7264)
- 9:45 **THE POTTER, BETWEEN SPECIALISED PRODUCTION AND ROUTINE ACTIVITIES? MULTIDISCIPLINARY STUDY OF A COPPER AGE KILN**
Dal Corso, Marta (Kiel University / CRC1266 / ROOTS) - Hofmann, Robert (Kiel University / CRC1266) - Ohlrau, Renè (Kiel University / ROOTS) - Dreibrodt, Stefan (Kiel University / CRC1266) - Müller, Johannes (Kiel University / CRC1266 / ROOTS) - Benecke, Norbert (DAI Berlin) - Videiko, Mihail (Borys Grinchenko Kyiv University) - Kirleis, Wiebke (Kiel University / CRC1266 / ROOTS)
- 10:00 **DISCUSSION SLOT**
- 10:15 **USING PHYTOLITHS TO RECONSTRUCT ARCHAEOLOGICAL STORAGE PIT FUNCTION IN BRONZE AND IRON AGE ANATOLIA (TURKEY)**
Turnbull, Molly (University of Queensland School of Social Science, Archaeology) - Crowther, Alison (University of Queensland School of Social Science, Archaeology; Max Planck Institute for the Science of Human History) - Fairbairn, Andrew (University of Queensland School of Social Science, Archaeology) - Omura, Sachihito (Japanese Institute of Anatolian Archaeology)
- 10:30 **PLANT WAYS IN MIDDLE BRONZE AGE ANATOLIA – AN ARCHAEOLOGICAL INTERPRETATION OF PHYTOLITHS AND PLANT REMAINS AT ZINCIRLI HÖYÜK, TURKEY**
Ögüt, Birgül (German Archaeological Institute) - Karakaya, Doga (Eberhard Karls Universität Tübingen, Institut für Naturwissenschaftliche Archäologie)
- 10:45 **IDENTIFYING THE WATER REGIME AND ITS ASSOCIATION WITH CROP HIERARCHIES DURING 1850-1750 CAL BC IN THE XINZHAI SITE, CHINA**
An, Jingping - Dal Corso, Marta - Kirleis, Wiebke (Pre-and Protohistorical Archaeology, Kiel University) - Jin, Guiyun (Institute of Cultural Heritage, Shandong University)
- 11:00 **DISCUSSION SLOT**
- 11:30 **PHYTOLITHS, SEEDS AND WOODEN CRAFTS: THE STUDY OF JAPANESE COLONIALISM IN NORTHERN TAIWAN (HEPING DAO, KEELUNG)**
Chevalier, Alexandre (Royal Belgian Institute of Natural Sciences) - Martín-Seijo, María - Serrano Herrero, Elena (Universidad de Cantabria) - Tsang, Chenghwa (National Tsing Hua University) - Cruz Berrocal, María (Universidad de Cantabria)
- 11:45 **PHYTOLITHS, STARCH GRAINS AND ANDEAN CROPS: THE INPUT OF THEIR DIVERSITY FROM AMERICA TO ARCHAEOBOTANICAL RESEARCH**
Musaubach, Maria (National University of Jujuy; Institute of Andean Ecoregions - CONICET-UNJu) - Plos, Anabela (Museo Argentino de Ciencias Naturales - CONICET; GBIF Argentina; Sistema Nacional de Datos Biológicos)



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- 12:00** **SONDONDO 'S AGRICULTURE AS REFLECTED IN PHYTOLITHS. USE OF SOIL ANALYSIS TO UNDERSTAND SOCIAL DEVELOPMENT IN PREHISPANIC TERRACES IN PERU**
Aparicio, Patricia (Pontificia Universidad Católica del Perú; Universidad de Oviedo) - Korstanje, Alejandra (Instituto de Arqueología y Museo, Universidad Nacional de Tucuman, Instituto Superior de Estudios Sociales - CONICET-UNT)
- 12:15** **DARK EARTHS PLANT MANAGEMENT AND THE REGIONAL DEVELOPMENT OF TAPAJO CULTURE IN THE LOWER AMAZON**
Alves, Daiana (Federal University of Pará) - Iriarte, Jose (University of Exeter)
- 12:30** **4000 YEARS OF RESILIENT PASTORALISM: THE PHYTOLITH ASSEMBLAGE FROM A MULTIPERIOD HABITATION SITE IN NORTHWESTERN MONGOLIA**
García-Granero, Juan José (Spanish National Research Council - IMF-CSIC; University of Oxford) - Égüez, Natalia (Universidad de La Laguna) - Seitsonen, Oula (University of Oulu) - Wright, Nathan (University of New England) - Broderick, Lee (Oxford Archaeology) - Bayarshaikhan, Jamsranjav (National Museum of Mongolia) - Houle, Jean-Luc (Western Kentucky University)
- 12:45** **DISCUSSION SLOT**
- 14:30** **RECONSTRUCTING BRONZE AGE AGRO-PASTORAL PRACTICE IN THE MESOPOTAMIAN-ZAGROS FOOTHILLS: PHYTOLITH AND FTIR ANALYSIS OF DUNG-RICH SEDIMENTS FROM KHANI MASI (IRAQ)**
Laugier, Elise (Dartmouth College) - Cabanes, Dan (Rutgers University)
- 14:45** **BEDDING LAYERS FROM BORDER CAVE, SOUTH AFRICA: A PHYTOLITH AND FTIR INVESTIGATION**
Esteban, Irene (ERAAUB - Universitat de Barcelona; Evolutionary Studies Institute, University of the Witwatersrand) - Wadley, Lyn (Evolutionary Studies Institute, University of the Witwatersrand) - Backwell, Lucinda (Instituto Superior de Estudios Sociales - ISES-CONICET; Evolutionary Studies Institute, University of the Witwatersrand)
- 15:00** **TAPHONOMY, ENVIRONMENT OR HUMAN PLANT EXPLOITATION STRATEGIES? DECIPHERING CHANGES IN PLEISTOCENE-HOLOCENE PLANT REPRESENTATION AT UHMLATUZANA ROCK SHELTER, SOUTH AFRICA**
Murungi, May (Human Evolution Research Institute, University of Cape Town; Evolutionary Studies Institute, University of the Witwatersrand) - Esteban, Irene (ERAAUB, Dept. Història i Arqueologia, Universitat de Barcelona; Evolutionary Studies Institute, University of the Witwatersrand; Centre for Coastal Palaeoscience, Nelson Mandela Metropolitan University) - Sifogeorgaki, Irini (Faculty of Archaeology, Leiden University) - Dusseldorp, Gerrit (Faculty of Archaeology, Leiden University; Palaeo-Research Institute, University of Johannesburg)
- 15:15** **DISCUSSION SLOT**
- 15:30** **TOWARDS A MODEL OF A MAMMALIAN INTERFACE WITH THE PHYTOLITHS IN THEIR NATURAL ENVIRONMENT: INSIGHTS FROM TAÏ CHIMPANZEE FAECAL PHYTOLITHS**
Power, Robert (Institute for Pre-and Protohistoric Archaeology and Archaeology of the Roman Provinces, Ludwig-Maximilians-University Munich; Department of Human Evolution, Max Planck Institute for Evolutionary Anthropology, Leipzig) - Wittig, Roman (Department of Primatology, Max Planck Institute of Evolutionary Anthropology, Leipzig; Taï Chimpanzee Project, centre Suisse de Recherches Scientifiques, Abidjan) - Stone, Jeffery (Department of Earth and Environmental Systems, Indiana State University) - Kupczik, Kornelius (Max Planck Weizmann Center for Integrative Archaeology and Anthropology, Max Planck Institute of Evolutionary Anthropology, Leipzig, Germany; Department of Human Evolution, Max Planck Institute for Evolutionary Anthropology, Leipzig) - Schulz-Kornas, Ellen (Max Planck Weizmann Center for Integrative Archaeology and Anthropology, Max Planck Institute of Evolutionary Anthropology, Leipzig; Department of Human Evolution, Max Planck Institute for Evolutionary Anthropology, Leipzig)
- 15:45** **INVESTIGATING DIETARY CHANGES AT TELL KAMID EL-LOZ, BETWEEN THE 2ND-1ST MILLENNIA B.C.E USING PLANT MICROREMAINS RECOVERED FROM DENTAL CALCULUS**
Gur-Arieh, Shira (Ludwig-Maximilians-Universität München)
- 16:00** **A GLIMPSE INTO SHELLMOUND BUILDERS DIET DURING MID-TO-LATE HOLOCENE ON MARAJÓ ISLAND**
Hilbert, Lautaro (University of São Paulo) - Alves, Daiana (Federal University of Pará) - Iriarte, José (University of Exeter)
- 16:15** **DISCUSSION SLOT**



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- 16:45 **DUNG IN THE DUMPS: AN ARCHAEOBOTANICAL COMPARISON OF PHYTOLITHS, POLLEN AND SEEDS IN DUNG PELLETS FROM EARLY ISLAMIC SHIVTA (ISRAEL)**
Dunseth, Zachary (Brown University) - Langgut, Dafna (Tel Aviv University) - Fuks, Daniel (McDonald Institute for Archaeological Research, University of Cambridge)
- 17:00 **PHYTOLITHS, POLLEN, AND PALEOECOLOGY AT A MIDDLE WOODLAND SITE IN THE AMERICAN SOUTHEAST**
Balco, William (University of North Georgia) - Scott Cummings, Linda (PaleoResearch Institute)
- 17:15 **DISCUSSION SLOT + POSTERS**

POSTERS:

- A. **FURTHER EVIDENCE FOR SEASONAL TRANSHUMANCE OF YAMNAYA COMMUNITIES DURING THE LATE COPPER – EARLY BRONZE AGE OF THE CARPATHIAN BASIN**
Lisztes-Szabó, Zsuzsa (Isotope Climatology and Environmental Research Centre, Institute for Nuclear Res) - Filep, Anna Fruzsina (Pál Juhász-Nagy Doctoral School of Biology and Environmental Sciences, University of Debrecen) - Heyd, Volker (Department of Cultures, University of Helsinki) - Kulcsár, Gabriella (Institute of Archaeology, Research Centre for the Humanities) - Włodarczak, Piotr (Polska Akademia Nauk, Instytut Archeologii i Etnologii, Ośrodek Archeologii Gór i Wyżyn) - Dani, János (Déri Museum)
- B. **GRINDING PLANTS FOR FOOD AT THE EARLY BRONZE AGE SITE OF AGIOS ATHANASIOS: A MULTIPROXY APPROACH**
Kasapidou, Georgia (LIRA Laboratory, Department of Archaeology, School of History and Archaeology, Aristotle University of Thessaloniki; Center for Interdisciplinary Research and Innovation - CIRI-AUTH, Balkan Center, Thessaloniki) - Tsartsidou, Georgia (The Malcolm H. Wiener Laboratory for Archaeological Science, The American School of Classical Studies at Athens; Ephorate of Palaeoanthropology-Speleology) - McNamee, Calla (The Malcolm H. Wiener Laboratory for Archaeological Science, The American School of Classical Studies at Athens) - Chondrou, Danai - Valamoti, Soultana (LIRA Laboratory, Department of Archaeology, School of History and Archaeology, Aristotle University of Thessaloniki; Center for Interdisciplinary Research and Innovation - CIRI-AUTH, Balkan Center, Thessaloniki)
- C. **UNDERSTANDING CROP PROCESSING MODELS AND THEIR SOCIAL MEANINGS DURING THE XINZHAI PERIOD (1850-1750 CAL BC)**
An, Jingping - Kirleis, Wiebke (Pre-and Protohistorical Archaeology, Kiel University) - Jin, Guiyun (Institute of Cultural Heritage, Shandong University) - Zhao, Chunqing (Institute of Archaeology Chinese Academy of Social Sciences)
- D. **BEFORE AND AFTER OF THE HUDSON VOLCANO ERUPTION: PALEOECOLOGICAL APPROACH BY MULTIDISCIPLINARY ANALYSIS OF CAMELID COPROLITES**
Benvenuto, María Laura - Burry, Lidia Susana - Velázquez, Nadia - Martínez Tosto, Ana Cecilia - Petrigh, Romina (IIPROSAM, CONICET-UNMdP. Centro de Asociación Simple CIC PBA; Facultad de Ciencias Exactas y Naturales, UNMdP) - Camiolo, Ivana (IIPROSAM, CONICET-UNMdP. Centro de Asociación Simple CIC PBA) - Bozzuto, Damián (INAPL-CONICET; Facultad de Filosofía y Letras, Universidad Nacional de Buenos Aires) - Fernández, Natalia (IMHICIHU-CONICET) - Mavroff, Nicolás (INAPL-CONICET; Facultad de Filosofía y Letras, Universidad Nacional de Buenos Aires) - Guichón, Ricardo (Laboratorio de Ecología Evolutiva Humana y Núcleo de Estudios Interdisciplinarios sobre Poblaciones Humanas de Patagonia Austral; Facultad de Ciencias Sociales, Universidad Nacional del Centro de la Provincia de Buenos Aires)
- E. **PREDATOR-PREY RELATIONSHIPS INFERRED BY COPROLITE PHYTOLITH ANALYSIS FROM ARGENTINE PATAGONIA**
Benvenuto, María Laura - Velázquez, Nadia - Martínez Tosto, Ana Cecilia (IIPROSAM, CONICET-UNMdP. Centro de Asociación Simple CIC PBA; Facultad de Ciencias Exactas y Naturales, UNMdP) - Fernández, Natalia (IMHICIHU-CONICET) - Civalero, María Teresa (INAPL-CONICET) - Osterrieth, Margarita (Instituto de Geología de Costas y del Cuaternario, UNMdP-CIC) - Burry, Lidia Susana (IIPROSAM, CONICET-UNMdP. Centro de Asociación Simple CIC PBA; Facultad de Ciencias Exactas y Naturales, UNMdP)

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Saturday 11 September 2021

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319 IMPR - PHYTOLITHS IN GEOARCHAEOLOGY AND MICROMORPHOLOGY

Time: 11:00 - 16:30 CEST, 11 September 2021

Theme: 1. Widening horizons through human-environment interconnections

Format: Regular session

Organisers: Vrydaghs, Luc (MARI - VUB) - Polo-Diaz, Ana (Marie Skłodowska-Curie Fellow - MSCA-IF, Department of Archaeology, University of Sheffield)

ABSTRACTS

- 11:00 20 YEARS OF LOOKING AT PHYTOLITHS IN ARCHAEOLOGICAL SOIL THIN SECTIONS: A REFLEXION
Devos, Yannick (Vrije Universiteit Brussel)
- 11:30 PHYTOLITHS IN EARLY MEDIEVAL FLOORS FROM NORTHERN FRANCE
Borderie, Quentin (CNRS UMR7041 ArScAn)
- 11:45 DISCUSSION SLOT
- 12:00 ANIMAL INDOOR PENNING AND STORAGE ACTIVITY IN THE EASTERN PYRENEES: THE CASE-STUDY OF LATE IRON AGE BALTARGA, Cerdanya
Portillo, Marta (Department of Archaeology and Anthropology, Institutió Milà i Fontanals - IMF, Spanish National Research Council - CSIC, Barcelona) - Sisa, Joaquim (Department of Prehistory, Autonomous University of Barcelona - UAB) - Alliot, Pascal - Olesti, Oriol (Department of Antiquity and Middle Age Studies, Autonomous University of Barcelona - UAB)
- 12:15 PHYTOLITHS AND CAVE AND ROCK-SHELTER DEPOSITS IN EARLY FARMING: PROVIDING ARCHAEOLOGICAL CONTEXT FROM THIN SECTIONS FOR MICROMORPHOLOGICAL ANALYSIS
Polo-Diaz, Ana (Department of Archaeology, University of Sheffield)
- 12:30 PHYTOLITH AND MICROMORPHOLOGICAL ANALYSIS AT THE MIDDLE-TO-LATER STONE AGE SITE OF LOVEDALE, FREE STATE, SOUTH AFRICA
Wroth, Kristen (Eberhard-Karls-Universität Tübingen) - Bousman, Britt (Texas State University) - Tribolo, Chantal (CNRS-Université Bordeaux Montaigne) - Rossouw, Lloyd (National Museum, Bloemfontein) - Kolska Horwitz, Liora (Hebrew University of Jerusalem) - Miller, Chris (Eberhard-Karls-Universität Tübingen) - Toffolo, Michael (CNRS-Université Bordeaux Montaigne)
- 12:45 DISCUSSION SLOT
- 14:30 FIRES OF A HOUSE – BURNING EVENTS IN A MIDDLE BRONZE AGE VATYA HOUSE AT SZÁZHALOMBATTA-FÖLDVÁR TELL SITE (HUNGARY)
Peto, Ákos (Hungarian University of Agricultural and Life Sciences) - Kovács, Gabriella - Vicze, Magdolna (independent researcher)
- 14:45 INTEGRATING PHYTOLITH AND MICROMORPHOLOGICAL RESEARCH IN CENTRAL ANATOLIA: INSIGHTS INTO EARLY HOLOCENE HUMAN-PLANT-ANIMAL DYNAMICS
Garcia-Suarez, Aroa (University of Reading) - Portillo, Marta (Institutió Milà i Fontanals - Spanish National Research Council)
- 15:00 ONCE UPON A TIME... STORYTELLING PHYTOLITHS IN ARCHAEOLOGICAL THIN SECTIONS FROM THE ROYAL TOMB OF QATNA (SYRIA)
Pümpin, Christine (Integrative Prehistory and Archeological Science - IPAS, University of Basel) - Vrydaghs, Luc (Maritime Cultures Research Institute - MARI - Vrije Universiteit Brussel) - Reifarth, Nicole (CICS - Cologne Institute of Conservation, Sciences Textiles and Archaeological Fibres - TAF) - Doutrelepon, Hugues (ROOTS, Bruxelles) - Ball, Terry (Department of Ancient Scripture, Brigham Young University - Provo)
- 15:15 DISCUSSION SLOT



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- 15:30** **PHYTOLITH AND MICROMORPHOLOGY RESULTS FROM A NEOLITHIC ASH-PIT IN EASTERN CHINA**
Duan, Qimeng (Institute of Cultural Heritage, Shandong University) - Rao, Zongyue (Shandong Provincial Institute of Cultural Relics and Archaeology) - Jin, Guiyun (Institute of Cultural Heritage, Shandong University)
- 15:45** **INTEGRATING PHYTOLITH ANALYSIS OF BULK SAMPLES AND SOIL THIN SECTIONS. THE CASE OF THE RUE DES BOÎTEUX, BRUSSELS (BELGIUM)**
Hermans, Rosalie (Maritime Cultures Research Institute - MARI, Vrije Universiteit Brussel - VUB) - Chevalier, Alexandre (Royal Belgian Institute of Natural Sciences - RBINS, Brussels) - Albert, Rosa Maria (Catalan Institution for Research and Advanced Studies - ICREA; Dep. of History and Archaeology, University of Barcelona) - Devos, Yannick - Vrydaghs, Luc (Maritime Cultures Research Institute - MARI, Vrije Universiteit Brussel - VUB)
- 16:00** **DISCUSSION SLOT**



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342 IMPR - MICROSCOPY PHYTOLITHS IN SOIL THIN SECTIONS

Time: 16:30 - 18:30 CEST, 11 September 2021

Theme: 1. Widening horizons through human-environment interconnections

Format: Workshop

Organisers: Polo-Diaz, Ana (Department of Archaeology, University of Sheffield, Sheffield) - Devos, Yannick (Maritime Cultures Research Institute (MARI) - Department of Art Studies and Archaeology, Vrije Universiteit Brussel, Brussels) - Khamnueva-Wendt, Svetlana (Institute for Ecosystem Research Kiel University, Kiel)

ABSTRACTS

The present session is structured as a microscopy workshop in relation to the study of phytoliths in archaeological soil and sediment thin sections. As such, the workshop is related to the session "Phytoliths in geoarchaeology and micromorphology".

We aim to an informal meeting with a focus on the exchange of ideas and experiences in this arena in a practical way. Hands-on microscope work will provide an opportunity for participants to discuss relevant questions regarding methodological approaches, analytical tools and interpretation of results.

The overall goals of the workshop are: to raise awareness among phytolith specialists and micromorphologists / geoarchaeologists on the potential of applying phytolith analysis to archaeological thin sections and promote its practical integration to address archaeological questions.

Participants are welcome to bring their own research materials. Additionally, thin sections related to the presentations of the session "Phytoliths in geoarchaeology and micromorphology" will be made available during the workshop.

This session is part of the 12th International Meeting for Phytolith Research, or IMPR, the official scientific conference of the International Phytolith Society.