





6th ICAZ Taphonomy Working Group Meeting (ICAZ-TWG)



9th International Meeting on Taphonomy and Fossilization

80th Anniversary of Efremov's Taphonomy

5 - 11th June 2022
Alcalá de Henares (Madrid, Spain)

 www.taphostwg.es
 taphostwg@gmail.com



MUSEO ARQUEOLÓGICO REGIONAL



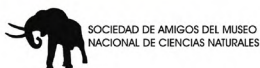
EvoAdapta
Grupo I+D+i de Evolución Humana y Adaptaciones Económicas y Ecológicas durante la Prehistoria



SOCIEDAD ESPAÑOLA DE PALEONTOLOGÍA



International Council for Archaeozoology



Instituto Geológico y Minero de España



PROGRAMME

Tuesday 7th of June

9:00-9:30	OPENING BY AUTHORITIES
9:30-10:15	Opening Keynote Speech by Anna K. Behrensmeyer

SESSION 1 - Open Air Taphosystem

10:20-10:40	Podium	<i>An ecological paradigm for the Las Hoyas Biota (upper Barremian, Iberian Basin, Cuenca, Spain)</i>	Ángela Buscalloni et al.
-------------	--------	---	--------------------------

10:40-11:00	Podium	<i>Bone weathering sheds light on the entrapment mode of La Brea mammals</i>	Borja Figueirido et al.
-------------	--------	--	-------------------------

11:00-11:40 COFFEE BREAK

11:45-11:50	Poster	<i>Mineralogical and geochemical characterization of fossil bone from Xylophagou, Cyprus</i>	Marianthi Tzortzi et al.
-------------	--------	--	--------------------------

11:50-11:55	Poster	<i>Deciphering the record of hyaenid activity in the Early Pleistocene site of Fuente Nueva-3 (Baza Basin, SE Spain)</i>	Patrocinio Espigares et al.
-------------	--------	--	-----------------------------

11:55-12:00	Poster	<i>Fossildiagenesis and conservation status of mammoth (<i>Mammuthus columbi</i>) fossils from Tocuila, State of Mexico, MEXICO.</i>	Luisa Straulino Mainou et al.
-------------	--------	--	-------------------------------

12:00-12:05	Poster	<i>New taphonomic techniques for old archaeological excavations: a taphonomic and spatial approach to the in situ Museum of Ambrona (Soria, Spain).</i>	Abel Moclán et al.
-------------	--------	---	--------------------

12:05-12:10	Poster	<i>Saving poorly preserved bones: Preliminary diagenesis study from Pit 1, Barranc de la Boella (Tarragona, Spain)</i>	Andrea Díaz-Cortés et al.
-------------	--------	--	---------------------------

12:10-12:30	Podium	<i>Crocodylomorph trackways and body fossils from the Lower Cretaceous of the Las Hoyas fossil site: insights on the paleoecology of this Iberian wetland (Cuenca province, Spain)</i>	Joaquín Moratalla et al.
-------------	--------	--	--------------------------

12:30-12:50	Podium	<i>Footprints in the cloister. The study of ichnites on tiles from the Monastery of Santa Maria de Pedralbes (Barcelona)</i>	Jordi Nadal et al.
-------------	--------	--	--------------------

12:50-13:10	Podium	<i>The Taphonomy of the Hunt: Unit V from the Middle Paleolithic Open-Air site of Nesher Ramla, Israel</i>	Zohar Turgeman-Yaffe et al.
-------------	--------	--	-----------------------------

13:10-14:55 LUNCH

The 80th Anniversary of Efremov's Taphonomy

5-11th June 2022 (Alcalá de Henares-Madrid, Spain)



15:00-15:20	Podium	<i>Rhizoliths, rhizocretions, and the anthropogenic biases: a case study from the Upper Triassic beds of southern Brazil</i>	Francesco Battista and Cesar Schultz
15:20-15:40	Podium	<i>Taphonomy and palaeoecology of the Priabonian flora from the Alès Basin (Gard, France). Comparison with a coeval flora from the Ebro Basin (NE Spain)</i>	Aixa Tosal et al.
15:40-16:00	Podium	<i>Taphonomic evidence for rabbit fur production in Medieval Barcelona</i>	Lluís Lloveras et al.
16:00-16:20	Podium	<i>Characterizing extinct carnivore tooth marks using 3D Geometric Morphometrics. The case study of <i>Canis mosbachensis</i> from Barranco León (1.46 Mya, Orce, Granada, Spain)</i>	Lloyd Courtenay et al.
16:20-16:40	Podium	<i>TAIF: taphonomic alteration index for fishes</i>	Carla San Román et al.
16:40-17:00	Podium	<i>A comparison of the taphonomic attributes of quarries VM3 and VM4 of the Early Pleistocene site of Venta Micena (Baza Basin, SE Spain)</i>	Paul Palmqvist et al.
17:00-17:20	Podium	<i>Unbroken dinosaur eggs accumulated together do not guarantee autochthony of the fossil assemblage</i>	Miguel Moreno-Azanza et al.
17:20-17:45	COFFEE BREAK		
17:50-17:55	Poster	<i>Identifying taphonomic agents from the Plio-Pleistocene record of the Shungura Formation (lower Omo River Valley, Ethiopia) using confocal microscopy and Elliptic Fourier Analyses</i>	Blade Engda Redae et al.
17:55-18:00	Poster	<i>Preliminary results on the physical taphonomy of the Pliocene water frogs from the Camp dels Ninots Konservat-Lagerstätte (Caldes de Malavella, NE Spain)</i>	Hughes-Alexandre Blain et al.
18:00-18:05	Poster	<i>Study of taphonomic alterations in the bones from El Rincón-1 fossil locality (Albacete, Spain).</i>	Rachel Pacheco-Scarpitta et al.
18:05-18:10	Poster	<i>New data on the taphonomy and geology of El Rincón-1 palaeontological site (Motilleja, Albacete, Spain)</i>	Jesús Gamarra et al.
18:10-18:15	Poster	<i>Application of three-dimensional techniques from computed tomography for the taphonomic study of articulated fossil assemblages of the Camp dels Ninots site.</i>	Adriana Linares-Martín et al.
18:15-18:20	Poster	<i>Pliocene cyprinid pharyngeal teeth at the Camp dels Ninots Konservat-Lagerstätte (Caldes de Malavella, NE Spain) – comments to preservation</i>	Tomáš Píkrýl et al.

The 80th Anniversary of Efremov's Taphonomy

5-11th June 2022 (Alcalá de Henares-Madrid, Spain)



18:20-18:25	Poster	<i>Not the same fossil: a closer look into surface alteration from two individuals of <i>Tapirus arvernensis</i> from Camp dels Ninots (Caldes de Malavella, Girona, Spain)</i>	Federica Grandi et al.
18:25-18:30	Poster	<i>Deeping inside Romualdo Formation vertebrate-bearing fossil sites: Is there possible to reconigse their provenance through taphonomy?</i>	Borja Holgado et al.
18:30-18:35	Poster	<i>Soft tissue preservation of a tapejarid pterosaur head crest</i>	Aude Cincotta et al.
18:35-18:40	Poster	<i>New insights into Pleistocene hominin butchery and tool choice from a 0.8 Ma fossil assemblage from the HEB site, Olduvai Gorge, Tanzania.</i>	Ipyana Mwakyoma et al.

Wednesday 8th of June

SESSION 2 - Experimental

9:00-9:20	Podium	<i>Forget about the agent! Identifying non-anthropogenic accumulation in zooarchaeological assemblages using Naive Bayesian Classifier: A trace-oriented, regional actualistic taphonomic exercise in the hyperarid coasts of the Atacama Desert.</i>	Sebastian Yrarrazaval et al.
9:20-9:40	Podium	<i>High-resolution analysis of taphonomic modifications in dental microwear studies: a first approach to identify trampling alterations</i>	Cristian Micó et al.
9:40-10:00	Podium	<i>Can sedimentary friction alter dental microwear patterns and what are the implications for dietary analysis?</i>	Antigone Uzunidis et al.
10:00-10:20	Podium	<i>Taphonomical and ecological insights from the study of recent bone assemblages: the case of Doñana National Park (Spain)</i>	Soledad Domingo
10:20-10:40	Podium	<i>Macaques in the taphonomic mirror: Experimental approach to environmental and behavioural scenarios in human evolution</i>	Anna Rufá et al.
10:40-11:00	Podium	<i>Assessing the activity of mosses as taphonomic agents in bone assemblages from Mediterranean wet forest environments</i>	Júlia Rubio-Coll et al.

11:00-11:35 COFFEE BREAK

11:40-11:45	Poster	<i>Examples of digestion in Quaternary bats from Spain</i>	Paloma Sevilla et al.
11:45-11:50	Poster	<i>A review of experimental and ethnographic butchery studies</i>	Briana Pobiner et al.
11:50-11:55	Poster	<i>Early bone tools: equifinality problems and possible solutions</i>	Paula Mateo-Lomba et al.
11:55-12:00	Poster	<i>Digestion degrees correlation between decapod crustaceans and mice: an actualistic taphonomy case study on yellow-legged gull's pellets</i>	Julián Galán et al.
12:00-12:20	Podium	<i>Experimental taphonomy of crustacean: unravelling controls on diagenetic sulfur processes</i>	Giliane Odin et al.
12:20-12:40	Podium	<i>Puncture game: let's play with the canines of predators</i>	Jean-Philip Brugal and Jean-Baptiste Fourvel
12:40-13:00	Podium	<i>The taphonomic effect of aeolian abrasion on bone: archaeological implications.</i>	Félix Marois et al.

13:00-14:55 LUNCH

The 80th Anniversary of Efremov's Taphonomy

5-11th June 2022 (Alcalá de Henares-Madrid, Spain)



15:00-15:20	Podium	<i>Bone weathering re-visited – rates, environmental controls, and applications to the fossil record</i>	Anna K. Behrensmeyer
15:20-15:40	Podium	<i>Bone weathering in an Atlantic environment: preliminary results of the Global Weathering Project</i>	Ana Belén Marín-Arroyo et al.
15:40-16:00	Podium	<i>Back to the Past: The Taphonomic Time Machine (LEA/LET)</i>	Yolanda Fernández-Jalvo
16:00-16:20	Podium	<i>An integral approach to the study of late Quaternary bromalites in South America</i>	Mariana Mondini
16:20-16:25	Poster	<i>Life history of archaeological remains: An investigation into the taphonomic effects of weathering and sedimentary pressure on two experimental models of archeo-paleontological assemblages simulating Middle Pleistocene sites</i>	Javier Llamazares González et al.
16:25-16:30	Poster	<i>Could facing techniques be compatible with optimal bone preservation surface?</i>	Noé Valtierra et al.
16:30-16:35	Poster	<i>Fish vertebrae fragmentation: experimental approach to identify breakage patterning due compression</i>	Romina Frontini et al.
16:35-16:40	Poster	<i>BACBONE: An interdisciplinary approach to micro-scale taphonomy and BACterial bioerosion on BONE.</i>	Geoffrey Smith et al.
16:40-16:45	Poster	<i>Taphonomy in genetic identification: bibliographic review of histological methodologies and future applications</i>	Alba Macho-Callejo et al.
16:45-16:50	Poster	<i>Seeking for the best conditions for fossil preservation using microbial mats</i>	Salvador Mollá et al.
16:50-16:55	Poster	<i>When Taxonomy relies on Taphonomy: Implications of digestion in taxonomic identifications of armadillo species</i>	Dores Marín-Monfort et al.
16:55-17:00	Poster	<i>Taphos-m: A modern application of Taphonomy</i>	Aida Gutiérrez et al.

17:00-17:25

COFFEE BREAK

SESSION 3 - Marine Taphosystem

17:30-17:35	Poster	<i>Differential taphonomic preservation in Jurassic brachiopods (Betic Range, SE Spain) related to paleobiologic and paleoecological factors</i>	José Francisco Baeza-Carratalá et al.
17:35-17:40	Poster	<i>Taphonomy of Kuphus beds in an Oligocene carbonate platform (Sierra de la Argüeña, Southeastern Spain) to address palaeoecological interpretation of ancient Kuphus</i>	Alice Giannetti and Santiago Falces-Delgado

The 80th Anniversary of Efremov's Taphonomy

5-11th June 2022 (Alcalá de Henares-Madrid, Spain)



17:40-17:45	Poster	<i>Encrusted-barnacles on fossil cetacean bones as first evidence of the reef stage of a whale-fall from shallow marine deposits, early Miocene of Patagonia, Argentina</i>	Nicolas Farroni et al.
17:50-17:55	Poster	<i>Exceptional preservation of starfishes in a hyperpycnal flow deposit from the Antarctic Eocene</i>	Evangelina Palópolo et al.
17:55-18:00	Poster	<i>Effect of transported shelf taxa on benthic foraminiferal assemblages: a case study from carbonate turbidites in the Vera Basin (SE Spain)</i>	José Pérez-Asensio et al.
18:00-18:05	Poster	<i>Analysis of taphonomic alteration processes recognized in <i>Bouleiceras</i> (Ammonitina) of the Iberian Range. Paleoenvironmental and paleobiogeographical implications.</i>	Gemma Martínez et al.

CONFERENCE DINNER

Thursday 9th of June

8:30-14:30

FIELD TRIP TO BATALLONES

SESSION 3 (Continuation) - Marine Taphosystem

15:00-15:20	Podium	<i>Pliensbachian large-terebratulid beds: taphonomic signatures and paleoecological drivers (Southern Alps, Italy)</i>	Diego Garcia-Ramos et al.
15:20-15:40	Podium	<i>Taphonomic analysis of the basal beds of the Valdeteja Formation at the Rosario Mine (Bashkirian, León Province)</i>	Isabel Rodriguez-Castro et al.
15:40-16:00	Podium	<i>In situ and redeposited middle Miocene coralline algae in carbonate ramps at the southern margin of the Guadalquivir Basin (Betic Cordillera, S Spain)</i>	Julio Aguirre and Juan Braga
16:00-16:20	Podium	<i>Corals or ichnofossils?: trompe l'oeil fossils from Silurian quartzites at El Centenillo (Sierra Morena, Jaén Province, Spain)</i>	Sergio Rodríguez et al.
16:20-16:40	Podium	<i>Hot or baked? influence of taphonomic alteration on paleoclimate interpretation using gigantoproductid brachiopod shells</i>	José Ricardo Mateos-Carralafuente et al.
16:40-17:00	Podium	<i>Taphonomic stories: outstanding preservation of the Upper Cretaceous vertebrate tracksite of Tamajón (Guadalajara, Spain)</i>	Senay Ozkaya de Juanas et al.
17:00-17:20	Podium	<i>Smashing Echinoids: Breakage Patterns and Preservation Potentials of Recent and Fossil Paracentrotus lividus</i>	James Nebelsick et al.

17:20-17:45

COFFEE BREAK

17:50-17:55	Poster	<i>Semiinfaunal mode of life in rhynchonellide brachiopods inferred by taphonomical evidences</i>	Mélani Berrocal-Casero et al.
17:55-18:00	Poster	<i>Structural control and Ostwald ripening as essential mechanisms during the fossilization process of a cidaroid (Balanocidaris?) radiole from Lower Cretaceous (Upper Albian) of Sierra de la Puerta (Calasparra, Murcia, Spain)</i>	Rosario Alcalde-Fuentes et al.
18:00-18:05	Poster	<i>Upper Triassic Palaeobiota – Taphonomic implications of an ammonite fauna within the Polzberg Konservat-Lagerstätte (Carnian, Northern Calcareous Alps, Austria)</i>	Alexander Lukeneder and Petra Lukeneder

The 80th Anniversary of Efremov's Taphonomy

5-11th June 2022 (Alcalá de Henares-Madrid, Spain)



18:05-18:10	Poster	<i>Holocene changes in abundance and drilling predation frequency in the clypeasteroid echinoid <i>Echinocyamus pusillus</i> from the northern Adriatic Sea</i>	Bettina Bachmann et al.
18:10-18:15	Poster	<i>Actualistic taphonomy of gastropods and brachiopods from the Brazilian coast</i>	Renato Pirani Ghilardi et al.
18:15-18:20	Poster	<i>Exceptional preservation of aragonite in the Upper Cretaceous porous limestones</i>	Katarzyna Janiszewska et al.
18:20-18:25	Poster	<i>Taphonomic gradients in brachiopod shell beds from the Middle Jurassic of the northern calcareous Alps (Austria-Germany)</i>	Fernando Garcia Joral et al.
18:25-18:30	Poster	<i>Insights to the extended taphonomic window of belemnoids from the Polzberg Konservat-Lagerstätte (Upper Triassic, Northern Calcareous Alps, Austria)</i>	Petra Lukeneder and Alexander Lukeneder
18:45	ASSEMBLY TWG-ICAZ		

Friday 10th of June

SESSION 4 - Karstic Taphosystem

9:00-9:20	Podium	<i>Middle and Upper Paleolithic Bone Retouchers from Ghar-e Boof (southern Zagros Mountains, Iran)</i>	Mario Mata-González
9:20-9:40	Podium	<i>Analysing criteria of formation in multi-stratified karst deposits: the observation of surfaces in Pleistocene faunal bones from Mora Cavorso cave (Latium, Central Italy).</i>	Angelica Fiorillo et al.
9:40-10:00	Podium	<i>The potential of micromammals for biostratigraphy and the timing of human occupations at La Roche-à-Pierrot (Saint-Césaire, France)</i>	Loïc Lebreton et al.
10:00-10:20	Podium	<i>Unravelling Neanderthal crab recipes: A combined approach using experimental and archaeological evidence</i>	Mariana Nabais
10:20-10:40	Podium	<i>Dead and buried: taphonomical investigation of the microvertebrate assemblage from Melitzia Cave (Mani Peninsula), Greece</i>	Maria Kolendrianou et al.
10:40-11:00	Podium	<i>Upper Paleolithic fishermen from Fuente del Salín cave (Cantabrian Region, northern Iberia)</i>	Ángel Blanco-Lapaz

11:00-11:35 COFFEE BREAK

11:40-11:45	Poster	<i>Digestion traits in the Late Pleistocene Chiroptera fossils from Loutra Almopias Cave A (Pella, Greece)</i>	Pavlos Piskoulis et al.
11:45-11:50	Poster	<i>Neotaphonomy observations: faunal accumulation on the floor of a cave surface</i>	Océane Morand et al.
11:50-11:55	Poster	<i>Taphonomy of the new cannibalized human remains from El Mirador Cave, Atapuerca, Spain.</i>	Francesc Marginedas et al.
11:55-12:00	Poster	<i>Small mammal taphonomy and paleoecology of the level QS-3 from the Quibas-Sima sequence (early Pleistocene, Murcia)</i>	Albert Navarro-Gil et al.
12:00-12:20	Podium	<i>Deciphering butchering practices of Magdalenian hunter-gatherers. A case study from La Viña rock shelter (northern Iberia)</i>	Leire Torres-Iglesias et al.
12:20-12:40	Podium	<i>Subsistence strategies during the early Upper Paleolithic. The interest of burnt bone fragments</i>	Aritza Villaluenga et al.
12:40-13:00	Podium	<i>Death by the water hole: Taphonomy of the upper units of the open-air site of Neshar Ramla (Israel)</i>	Meir Orbach et al.

13:00-14:55 LUNCH

The 80th Anniversary of Efremov's Taphonomy

5-11th June 2022 (Alcalá de Henares-Madrid, Spain)



15:00-15:20	Podium	<i>Outstanding exploitation of horse and aurochs in the Mousterian of Grotta di Santa Croce (Southern Italy)</i>	Jacopo Crezzini et al.
15:20-15:40	Podium	<i>Taphonomic analysis of the macromammal assemblage from the Cave is Skulls in the Judean Desert</i>	Tal Lavi et al.
15:40-16:00	Podium	<i>From little things big things grow: Investigating human involvement in the accumulation of small vertebrates in Matja Kuru 2 (Timor Leste) during the late Pleistocene</i>	Sofia Samper-Carro et al.
16:00-16:20	Podium	<i>Not only humans at El Castillo cave (Northern Iberia): The role of carnivores during the Transitional Aurignacian</i>	Alicia Sanz-Royo et al.
16:20-16:40	Podium	<i>Zooarchaeological and Taphonomic analysis of Grotta La Fabbrica (MIS3, Tuscany, Italy)</i>	Gabriele Terlato et al.
16:40-17:00	Podium	<i>Taphonomy of the fauna assemblage from the Middle Palaeolithic site of Vajo Salsone in the Monti Lessini, eastern Italian Alps.</i>	Ursula Thun et al.
17:00-17:20	Podium	<i>Early Bronze Age violence in Ojo Guareña (northern Iberia). Perimortem modifications in two male individuals</i>	Borja González-Rabanal et al.
17:20-17:45	COFFEE BREAK		
17:50-17:55	Poster	<i>Taphonomic study of the cave bears from Polvorin-Sima I (Karrantza, Biscay)</i>	Manuel Rodríguez-Almagro et al.
17:55-18:00	Poster	<i>Palaeoecological interpretations of the Pyrenean chamois from Valdegoba Cave (Burgos, Spain)</i>	Guillermo Rodríguez-Gómez et al.
18:00-18:05	Poster	<i>Taphonomy of microshells from Palaeolithic contexts: the case-study of Riparo Bombrini (Balzi Rossi, Ventimiglia, NW Italy)</i>	Silvia Gazzo et al.
18:05-18:10	Poster	<i>Bone diagenesis in the Karstic Taphosystem from Galeria site (Sierra de Atapuerca, Spain)</i>	Héctor Del Valle et al.
18:10-18:15	Poster	<i>Spatial analyses of the distribution of taphonomic marks on long animal bones of Lagar Velho rock-shelter (Early Gravettian), in Lapedo Valley (Leiria, Portugal)</i>	DelphineVettese et al.
18:15-18:20	Poster	<i>Taphonomic analysis of the late Pleistocene rodents from Lursaguen Galeria (Punta Lucero quarry, Bizkaia, Spain)</i>	Ángel Domínguez-García et al.
18:20-18:25	Poster	<i>What can be gained from studying coprolite taphonomy: The case of Villanueva-1 (Palencia, Spain)</i>	Irene Cambronero et al.

The 80th Anniversary of Efremov's Taphonomy

5-11th June 2022 (Alcalá de Henares-Madrid, Spain)



18:25-18:30	Poster	<i>Small mammal taphonomy in Palaeoecology and Palaeoclimate Holocene interpretations in the Andean Piedmont of Salamanca cave (north-western Patagonia, Mendoza, Argentina)</i>	Sara Garcia-Morato et al.
18:45	ASSEMBLY TAPHOS		

Saturday 11th of June

SESSION 4 (Continuation) - Karstic Taphosystem

9:00-9:20	Podium	<i>Taphonomy and site formation processes in the Marine Isotope Stage (MIS) 2 deposits of Lapa do Picareiro, central Portugal</i>	Jonathan Haws et al.
-----------	--------	---	----------------------

9:20-9:40	Podium	<i>Taphonomy of the micromammal assemblage from Cooper's D (Early Pleistocene, South Africa) and the palaeoenvironments of <i>Paranthropus robustus</i></i>	Pierre Linchamps et al.
-----------	--------	---	-------------------------

9:40-11:00	GENERAL DEBATE		
------------	----------------	--	--

11:00-11:30	COFFEE BREAK		
-------------	--------------	--	--

11:45-12:15	Keynote Speech by Óscar Cambra-Moo		
-------------	------------------------------------	--	--

12:15-12:45	Special Homage Celebration		
-------------	----------------------------	--	--

12:45-13:15	Goodbye Keynote Speech by Christiane Denys		
-------------	--	--	--

13:30	GOODBYE PARTY		
-------	---------------	--	--