

Shaping the Mediterranean basin: islands, coastlines and cultures across time
International Geoarchaeology Workshop, 14-15 May 2015

Aula Rossa, Università degli studi di Cagliari, Cittadella dei Musei

PROGRAMME
Thursday 14 May - Morning

From 09:00	<i>Registration opening</i>
09:30-10:00	<i>Welcome by Prof. Vito Lippolis, Vice Chancellor of the University of Cagliari, and Dr Giovanni Serreli of ISEM CNR</i>
Session 1	Climate and sea-level changes
Chair	Christopher Morhange , Centre de Recherche et d'Enseignement et Géosciences de l'Environnement CEREGE, Aix Marseille Université, FRANCE
10:00-10:25	<i>The archaeological evidence of sea level change in the Mediterranean: guidelines and reappraisals</i> Marco ANZIDEI ¹ , Fabrizio ANTONIOLI ² , Rita AURIEMMA ³ , Alessandra BENINI ⁴ , Elena F. CASTAGNINO BERLINGHIERI ⁵ , Flavio ENEI ⁶ , Stefano GIORGI ⁶ , Eleni KOLAITI ⁷ , Nikos MOURTZAS ⁷ , Emanuela SOLINAS ⁸ ¹ Istituto Nazionale di Geofisica e Vulcanologia, Rome, ITALY; ² ENEA - UTMEA, S. Maria di Galeria, Rome, ITALY; ³ Dipartimento di Beni Culturali, Università del Salento, Lecce, ITALY; ⁴ Dipartimento di Archeologia e Storia delle Arti, Università della Calabria, Cosenza, ITALY; ⁵ Università di Catania, Catania, ITALY; ⁶ Museo Civico di Santa Marinella (Rome), ITALY; ⁷ Gaiaergon, Athens, GREECE; ⁸ Archaeologist, Cagliari, ITALY
10:25-10:50	<i>Interactions between glaciers and rivers in the Pleistocene Mediterranean</i> Jamie WOODWARD ¹ , Philip HUGHES ¹ , Kathy ADAMSON ² ¹ Geography, School of Environment, Education and Development, The University of Manchester, Manchester, UK; ² Geography, School of Science and the Environment, Manchester Metropolitan University, Manchester, UK
10:50-11:15	<i>The view from Hava Fteah</i> Robyn INGLIS ¹ , Lucy FARR ² , Charles FRENCH ^{2,3} , Chris HUNT ⁴ , Graeme BARKER ² ¹ Department of Archaeology, University of York, UK; ² McDonald Institute for Archaeological Research, University of Cambridge, UK; ³ Division of Archaeology, University of Cambridge, UK; ⁴ School of Natural Sciences & Psychology, Liverpool John Moores University, UK
11:15-11:40	Coffee break
11:40-12:05	<i>Holocene climatic-induced morphodynamics and settlements in the coastal region of the Nile Delta</i> Fekri HASSAN Institute of Archaeology, University College London, London, UK
12:05-12:30	<i>Paleoclimate and palynological proxies during the Holocene sea level rising and human settlement (Sardinia)</i> Carla BUOSI, Paola PITTAU, Paolo ORRÙ, Anna M. PORCU, Giovanni G. SCANU, Marcella SCONAMILA Dipartimento di Scienze Chimiche e Geologiche, Università di Cagliari, Cagliari, ITALY
12:30-12:50	Discussion
12:50-14:00	Lunch break and poster session

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HOSTS



ISEM-Istituto di Storia dell'Europa Mediterranean CNR
 Dipartimento di Scienze Chimiche e Geologiche, Università di Cagliari
 McBurney Laboratory for Geoarchaeology, University of Cambridge

Thursday 14 May - Afternoon

Session 1	
Chair	Jamie Woodward , Geography, School of Environment, Education and Development, The University of Manchester, Manchester, UK
14:00-14:25	<i>New archaeological evidences of relative sea level changes along the coastlines of Apulia</i> Giuseppe MASTRONUZZI ¹ , Cristiano ALFONSO ⁴ , Fabrizio ANTONIOLI ² , Marco ANZIDEI ³ , Rita AURIEMMA ⁴ ¹ Dipartimento di Scienze della Terra e Geoambientali, Università degli Studi "Aldo Moro", Bari, ITALY; ² ENEA UTMEA, Rome, ITALY; ³ Istituto Nazionale di Geofisica e Vulcanologia, Rome, ITALY; ⁴ Dipartimento di Beni Culturali, Università del Salento, Lecce, ITALY
14:25-14:50	<i>The palaeontomological record of Cavallo Island (Lavezzi Archipelago, Corsica): 7000 years of a complex environmental history</i> Yoann POHER, Philippe PONEL, Frédéric GUITER, Frédéric MÉDAIL Aix Marseille Université, Institut méditerranéen de biodiversité et d'écologie (IMBE) and Labex OT-Med, Objectif Terre - Bassin Méditerranéen, FRANCE
14:50-15:15	<i>The monumental submerged Punic harbour of Malfatano and associated Piscinni quarries, sea level changes and geoarchaeological approach</i> Paolo E. ORRU ¹ , Fabrizio ANTONIOLI ² , Giuseppe MASTRONUZZI ³ , Emanuela SOLINAS ⁴ , Pier Giorgio SPANO ⁵ , Raimondo ZUCCA ⁵ ¹ Dipartimento Scienze Chimiche e Geologiche - Università di Cagliari, ITALY; ² ENEA UTMA, Rome, ITALY; ³ Dipartimento di Scienze della Terra e Geoambientali, Università di Bari "Aldo Moro", Bari, ITALY; ⁴ AIA Sub - Associazione Italiana Archeologi Subacquei, Rome, ITALY; ⁵ Dipartimento di Storia, Scienze dell'Uomo e della Formazione, Università di Sassari, Sassari, ITALY
15:15-15:40	Coffee break
15:40-16:05	<i>Unravelling colonisation and abandonment horizons in Mediterranean island archaeology</i> Helen DAWSON Freie Universität, Berlin, GERMANY
16:05-16:30	<i>Coastal and submerged archaeology in Sicily: a shared landscape across time</i> Alba MAZZA Department of Archaeology, University of Sydney, Sydney, AUSTRALIA
16:30-16:55	<i>The relief of the Western coast of the Cimmerian Bosphorus in Antiquity</i> Aleksy V. ZINKO, Victor N. ZINKO History and Archaeology of the Crimea Research Center, Crimean Federal University, Simferopol, CRIMEA
17:00-17:20	Discussion
KEYNOTE LECTURE 17:20-18:10	
<i>Mediterranean harbour environments: advances and pitfalls of geoarchaeology</i> CHRISTOPHE MORHANGE Professor of Physical Geography Centre de Recherche et d'Enseignement Géosciences de l'Environnement CEREGE, Aix Marseille Université, FRANCE	

Friday 15 May - Morning

Session 2	
Changing landscapes and developing cultures	
Chair	Charles French , Division of Archaeology and McBurney Laboratory for Geoarchaeology, University of Cambridge, Cambridge, UK
09:00-09:25	<i>The decline of the Greek Polis Atarneus near the Eastern Aegean coast: consequences of a landscape change?</i> Steffen SCHNEIDER ¹ , Marlen SCHLÖFFEL ² , Albrecht MATTHAEI ³ , Barbara HOREJS ⁴ , Brigitta SCHÜTT ¹ ¹ Freie Universität Berlin, Physical Geography, Berlin, GERMANY; ² Osnabrück University, Institute of Geography, Osnabrück, GERMANY; ³ Marie Curie M4Human Fellow, Roma, ITALY; ⁴ Austrian Academy of Sciences, OREA, Wien, AUSTRIA
09:25-09:50	<i>The environs of Elaia (NW Turkey): sea-level fluctuations, vegetation history and microfaunal records</i> , Martin SEELIGER ¹ , Lyudmila S. SHUMILOVSKIKH ² , Anna PINT ¹ , Peter FRENZEL ³ , Stefan FEUSER ⁴ , Daniel KELTERBAUM ¹ , Melanie BARTZ ¹ , Dominik BRILL ¹ , Helmut BRÜCKNER ¹ ¹ Institute of Geography, University of Cologne, Köln, GERMANY; ² Mediterranean Institute of Marine and Terrestrial Biodiversity, Aix-en-Provence, FRANCE; ³ Institute of Earth Sciences, Friedrich Schiller University of Jena, GERMANY; ⁴ Heinrich Schliemann-Institute for Ancient Studies, University of Rostock, Rostock, GERMANY
09:50-10:15	<i>Land use and climate change in Minorca between Al-Andalus and the feudal conquest</i> Andrea Luca BALBO ¹ , Jaime FRIGOLA ² , Arnald PUY ^{1,3} , Felix RETAMERO ⁴ , Isabel CACHO ² , Helena KIRCHNER ⁴ ¹ Complexity and Socio-Ecological Dynamics (CaSEs), Archaeology and Anthropology, Institució Milà i Fontanals, CSIC, Barcelona, SPAIN; ² GRC Geociències Marines, Universitat de Barcelona Barcelona, SPAIN; ³ Geographisches Institut, Universität zu Köln, Köln, GERMANY; ⁴ Arqueologia Agrària de l'Edat Mitjana (ARAEM), Ciències de l'Antiguitat i l'Edat Mitjana, Universitat Autònoma de Barcelona (UAB), Cerdanyola, SPAIN
10:15-10:40	Coffee break
10:40-11:05	<i>An integrative approach to assess reliability of AMS dates for terrace constructions: FTIR soil micromorphology and terrace clustering</i> Arnald Puy Geographisches Institut, Universität zu Köln, Köln, GERMANY
11:05-11:30	<i>From Adriatic coast to Lombardy in the Early Middle Ages</i> Simone SESTITO Università degli Studi di Padova - Dipartimento dei Beni Culturali, Padova, ITALY
11:30-11:50	Discussion
KEYNOTE LECTURE 12:00-12:50	
<i>The making of a middle sea: the early Mediterranean in comparative perspective</i> CYPRIAN BROODBANK Disney Professor of Archaeology and Director McDonald Institute for Archaeological Research, University of Cambridge, UK	
12:50-13:50	Lunch break and poster session

PROGRAMME
Posters

Session 1A Climate and sea-level changes

1A	<p><i>Coastline and climatic changes in the Punic period (V-III century B.C.): archaeological and paleobotanical indicators (South Sardinia - West Mediterranean Sea)</i> Carla BUOSI, Paola PITTAU, Paolo ORRÙ, Emanuela SOLINAS, Giuseppe G. SCANU Dipartimento di Scienze Chimiche e Geologiche, Università di Cagliari, Cagliari, ITALY</p>
2A	<p><i>Shaping the Italian Prehistoric landscapes in a wider process of sea-level changes : interdisciplinary researches and new data</i> Elena Flavia CASTAGNINO BERLINGHIERI¹, Fabrizio ANTONIOLI² ¹Università di Catania, Catania, ITALY; ²ENEA UTMEA, Rome, ITALY</p>
3A	<p><i>Climate fluctuations and human impact during the late Holocene in a multi-proxy marine record from the Gulf of Gaeta (Tyrrhenian Sea, central Italy)</i> Federico DI RITA¹, Giulia MARGARITELLI^{2,6}, Fabrizio LIRER², Mattia VALLEFUOCO², Sergio BONOMO², Lucilla CAPOTONDI³, Antonio CASCELLA⁴, Luciana FERRARO², Donatella D. INSINGA², Donatella MAGRI¹, Paola PETROSINO⁵ ¹ Dipartimento di Biologia Ambientale, Sapienza Università di Roma, Rome, ITALY; ² Istituto per l'Ambiente Marino Costiero (IAMC) - CNR, Napoli, ITALY; ³ Istituto Scienze Marine, ISMAR-CNR, Bologna, ITALY; ⁴ Istituto Nazionale di Geofisica e Vulcanologia (INGV), Pisa, ITALY; ⁵ Dipartimento di Scienze della Terra, dell'Ambiente e delle Risorse, Università degli Studi "Federico II", Napoli, ITALY; ⁶ Dipartimento di Fisica e Geologia, Università di Perugia, Perugia, ITALY</p>
4A	<p><i>Climatic changes and human impact on coastal areas of Sardinia: the example of the Mistras-Cabras barrier-lagoon system (Central-Western Sardinia)</i> Vincenzo PASCUCCI¹, Carla DEL VAIS², Stefano ANDREUCCI³, Giovanni DE FALCO⁴, Anna DEPALMAS⁵, Anna C. FARISELLI⁶, Rita T. MELIS³, Giuseppe PISANU⁷, Ignazio SANNA⁸ ¹ Università degli Studi di Sassari, Dipartimento di Architettura, Design, Urbanistica, Sassari, ITALY; ² Università degli Studi di Cagliari, Dipartimento di Storia, Beni Culturali e Territorio, Cagliari, ITALY; ³ Università degli Studi di Cagliari, Dipartimento di Scienze Chimiche e Geologiche, Cagliari, ITALY; ⁴ Istituto per l'Ambiente Marino IAMC-CNR, Cagliari, ITALY; ⁵ Università degli Studi di Sassari, Dipartimento di Storia, Sassari, ITALY; ⁶ Dipartimento di Beni Culturali, Università di Bologna; Università degli Studi di Sassari, Scuola di Specializzazione in Beni Archeologici; ⁷ Soprintendenza per i Beni Archeologici per le province di Cagliari e Oristano, ITALY</p>
5A	<p><i>Geomorphological features of the marine area of Sinuessa in Campania, southern Italy</i> Micla PENNETTA¹, Alfredo TROCCIOLO², Carmine MINOPOLI², Renata VALENTE³, Corrado STANISLAO¹, Carlo DONADIO¹ ¹ Department of Earth Sciences, Environment and Resources, University of Naples Federico II, Napoli, ITALY; ² ENEA, Centro Ricerche Portici, Portici (NA), ITALY; ³ Dipartimento di Ingegneria Civile, Design, Edilizia, Ambiente, Second University of Naples, Aversa (CE), ITALY</p>

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Session 1A Climate and sea-level changes

6A	<p><i>From piedmont to floodplain - Late Holocene landscape change in the environs of Pergamon in western Turkey</i> Marlen Schlöffel¹, Steffen SCHNEIDER², Albrecht MATTHAEI³, Brigitta SCHÜTT²</p> <p>¹ Osnabrück University, Institute of Geography, Osnabrück, GERMANY; ² Freie Universität Berlin, Physical Geography, Berlin, GERMANY; ³ Marie Curie M4Human Fellow, Roma, ITALY</p>
7A	<p><i>Paleo-landscapes along the Ionian coast of Salento</i> Cristiano ALFONSO, Dipartimento Beni Culturali Facoltà di Lettere e Filosofia, Lingue e Beni Culturali, Università del Salento, Lecce, ITALY</p>
8A	<p><i>Palaeo-environmental evolution of the Kathari-Lichines marine bay (Kition, Larnaca, Chypre)</i> Guénaëlle BONY¹, Nicolas CARAYON², Clément FLAUX³, Nick MARRINER⁴, Christophe MORHANGE⁵</p> <p>¹ Archéologie des sociétés méditerranéennes, UMR CNRS, Lattes, FRANCE; ² Department of Archaeology, University of Southampton; Southampton, UK; ³ EcoLab (Laboratoire d'Ecologie Fonctionnelle et Environnement) UMR, Toulouse, FRANCE; ⁴ CNRS; Laboratoire Chrono-Environnement UMR, Besançon, FRANCE; ⁵ CEREGE, UMR CNRS/AMU, Europôle Méditerranéen de l'Arbois, Aix-en-Provence, FRANCE; ⁶ Laboratoire HISOMA, Maison de l'Orient et de la Méditerranée, Lyon, FRANCE</p>

Session 1B Climate and sea-level changes

1B	<p><i>Agathe, an ephemeral island of the Languedoc coast? (Agde Hérault, France)</i> Benoît DEVILLERS^{1,2,3}, Guénaëlle BONY^{1,3}, Jean-Philippe DEGEAI^{1,3}, Jean GASCO¹, Hamza OUESLATI^{1,2}, Morgane SUTRA¹, Florian YUNG¹</p> <p>¹ Archéologie des sociétés méditerranéennes, UMR CNRS, Lattes, FRANCE; ² Université Paul Valéry- Montpellier 3, Département de Géographie, Montpellier, FRANCE; ³ Labex ARCHIMEDE, ANR-11-LABX-0032-01, Montpellier, FRANCE</p>
2B	<p><i>Decline of evergreen vegetation in the central Mediterranean regions during the 4 ka BP drought event</i> Federico DIRITA, Donatella MAGRI</p> <p>Dipartimento di Biologia Ambientale, Sapienza University of Rome, Rome, ITALY</p>
3B	<p><i>Middle Holocene Landscape evolution and settlements in the north-western coast of Sardinia: preliminary study of the Sant'Imbenia site</i> Rita T. MELIS¹, Giovanni ATZENA², Anna DEPALMAS³, Elisabetta GARAU³, Francesca MONTIS¹, Giorgia RATTO¹, Marco RENDELI³</p> <p>¹ Dipartimento di Scienze Chimiche e Geologiche, Università di Cagliari, Cagliari, ITALY; ² Dipartimento di Architettura, Design, Urbanistica, Università di Sassari, Sassari, ITALY; ³ Dipartimento di Storia, Scienze dell'Uomo e della Formazione, Università di Sassari, Sassari, ITALY</p>
4B	<p><i>Relationship between prehistoric settlements and landscape evolution in the central western coast of Sardinia (Gulf of Oristano)</i> Rita T. MELIS¹, Anna DEPALMAS², Giovanna FUNDONI², Francesca MONTIS¹, Giorgia RATTO¹, Serafina SECHI¹, Silvia VIDILI, Marco ZEDDA³</p> <p>¹ Dipartimento di Scienze Chimiche e Geologiche, Università di Cagliari, ITALY; ² Dipartimento di Storia, Scienze Umane e Formazione, Università di Sassari, ITALY; ³ Dipartimento di Medicina Veterinaria, Università di Sassari, ITALY</p>

Session 1B Climate and sea-level changes

5B	<p><i>Shorelines changes and human settlements dynamics in the Lagoon of Mistras- river Tirso coastal plane in the last 3 ky (Middle Bronze-High Middle Ages)</i> Paolo E. ORRU¹, Giacomo DEIANA¹, Giuseppe MASTRONUZZI², Enrico M. PALIAGA¹, C. PIGNATELLI², A. PISCITELLI², Emanuela SOLINAS³, Pier Giorgio SPANU⁴, Raimondo ZUCCA⁴</p> <p>¹ Dipartimento Scienze Chimiche e Geologiche - Università di Cagliari, Cagliari, ITALY; ² Dipartimento di Scienze della Terra e Geoambientali, Università degli Studi di Bari "Aldo Moro", Bari, ITALY; ³ AIA Sub - Associazione Italiana Archeologi Subacquei - Roma, ITALY; ⁴ Dipartimento di Storia, Scienze dell'Uomo e della Formazione, Università di Sassari, Sassari, ITALY</p>
6B	<p><i>Geomorphology and palaeoenvironment of the Narbonne plain (France): The evolution of the deltaic landscape from the Neolithic period to the present</i> Tiphaine SALEL, CNRS - UMR, Archéologie des sociétés méditerranéennes, Lattes, FRANCE</p>

Session 2 Changing landscapes and developing cultures

1C	<p><i>Indagini geoarcheologiche sul porto antico di Agrigento</i> Valentina CAMINNECI¹, Vincenzo CUCCHIARA¹, Giuseppe PRESTI²</p> <p>¹ Soprintendenza BB.CC.AA. di Agrigento, Agrigento, ITALY; ² Parco Archeologico e Paesaggistico Valle dei Templi, Agrigento, ITALY</p>
2C	<p><i>Aspetti di continuità e cambiamento nel paesaggio archeologico dalla preistoria all'età medievale nel Gerrei (Sardegna sud-orientale)</i> Riccardo CICILLONI¹, Antonio FORCI², Marco CABRAS³</p> <p>¹ Dipartimento di Storia, Beni Culturali e Territorio, Università di Cagliari, Cagliari, ITALY; ² Civico Museo Archeologico "Sa Domu Nosta", Senorbi (CA), ITALY; ³ Universidad de Granada, Granada, SPAIN</p>
3C	<p><i>New data from fortified coastal settlement of Cap de Forma, Maó-Menorca (Balearic Islands)</i> Anna DEPALMAS, Claudio BULLA, Giovanna FUNDONI</p> <p>Dipartimento di Storia, Scienze dell'Uomo e della Formazione, Università di Sassari, Sassari, ITALY</p>
4C	<p><i>Prehistoric landscape dynamics and social complexity in the Erei uplands (Central Sicily) between the 5th and the 3rd millennium cal. BC</i> Enrico GIANNITRAPANI, Arkeos - Servizi Integrati Per I Beni Culturali, Enna, ITALY</p>
5C	<p><i>The quarries of the El Haouaria coast (north east of Tunisia): identity heritage and scientific and landscaping value</i> Gasmi NABIL¹, Felice DIGREGORIO², Barbara ALDIGHIERI³</p> <p>¹ Laboratoire de Cartographie Géomorphologique des Milieux, des Environnements et des Dynamiques, CGMED, Université de Tunis, TUNISIA; ² Dipartimento di Scienze Chimiche e Geologiche, Università di Cagliari, Cagliari, ITALY; ³ Consiglio Nazionale delle Ricerche, Istituto per la Dinamica dei Processi Ambientali, Milano, ITALY</p>
6C	<p><i>Archaeobotanical interpretation of a Middle Bronze Age (1914-1641 cal BC) cave site in south-western Sardinia (Italy)</i> Giacomo PAGLIETTI¹, Carla BUOSI², Giovanni Giuseppe SCANU², Paola PITTAU²</p> <p>¹ Dipartimento di Storia, Beni culturali e Territorio, Università degli Studi di Cagliari, Cagliari, ITALY; ² Dipartimento di Scienze Chimiche e Geologiche, Università degli Studi di Cagliari, Cagliari, ITALY</p>

Session 2 Changing landscapes and developing

7C	<p><i>The ancient harbour city of Ainos and its environs - Palaeoenvironmental reconstructions based on sedimentological and microfaunal evidence</i> Anna PINT¹, Martin SEELIGER¹, Daniel HOPPE¹, Sabine FAAS¹, Thomas SCHMIDTS², Dennis WILKEN³, Tina WUNDERLICH³, Sait BAŞARAN⁴, Peter FRENZEL⁵, Helmut BRÜCKNER¹</p> <p>¹ Institute for Geography, University of Cologne, Köln, GERMANY; ² Römisch-Germanisches Zentralmuseum, Dpt. and Museum of Ancient Navigation, Mainz, GERMANY ³ Angewandte Geophysik, Institut für Geowissenschaften, Universität zu Kiel, Kiel, GERMANY; ⁴ İstanbul Üniversitesi, Edebiyat Fakültesi, İstanbul, TURKEY; ⁵ Friedrich Schiller University of Jena, Institute of Earth Sciences, Jena, GERMANY</p>
8C	<p><i>ARQUEOTOPOS Project. Harbour of Cartagena an approach from the Paleotopography and Geoarcheology</i> Sebastian RAMALLO ASENSIO, Milagros ROS SALA, Francisca NAVARRO HERVAS, Jose I. MANTECA MARTINEZ, Tomas RODRIGUEZ ESTRELLA, Josefina GARCIA LEON, Miguel MARTINEZ ANDREU, Felipe CEREZO ANDREO, Elena RUIZ VALDERAS, Alicia Fernández DIAZ</p> <p>University of Murcia, SPAIN</p>
9C	<p><i>Natural and anthropic changes on landscapes: signs and designs in a river system. The study-case of the Potenza River final sector (Porto Recanati, Italy)</i> Domenico ARINGOLI, Federica ERBACCI, Marco MATERAZZI, Gilberto PAMBIANCHI</p> <p>School of Sciences and Technologies, University of Camerino, ITALY</p>
10C	<p><i>A preliminary archaeometric study of Aeneolithic anthropomorphic statues from Allai (Central Sardinia, Italy)</i> Marco SERRA^{1,2}, Valentina MAMELI³, C. CANNAS³</p> <p>¹ Dipartimento di Scienze Storiche, Archeologiche e Antropologiche dell'Antichità, University of Rome La Sapienza, Rome, ITALY; ² Dipartimento di Storia, Beni Culturali e Territorio, University of Cagliari, Cagliari, ITALY; ³ Dipartimento di Scienze Chimiche e Geologiche, University of Cagliari, Cagliari, ITALY</p>
11C	<p><i>Vertical ground displacement since Graeco-Roman Period desumed from new geoarchaeological and morphosedimentary data in the site of Sinuessa in Campania, southern Italy</i> Carlo DONADIO, Micla PENNETTA</p> <p>Department of Earth Sciences, Environment and Resources, University of Naples Federico II, Napoli, ITALY</p>
12C	<p><i>River history and settlement pattern in eastern Sardinia: integrative geoarchaeology in the Rio Posada basin</i> Federica SULAS¹, Rita T. MELIS², Charles FRENCH³, David REDHOUSE³, SEAN TAYLOR³, Giovanni SERRELI¹, Francesca MONTIS², Giorgia RATTO²</p> <p>¹ Istituto di Storia dell'Europa Mediterranea CNR, Cagliari, ITALY; ² Department of Chemical and Geological Sciences, University of Cagliari, Cagliari, ITALY; ³ Division of Archaeology, University of Cambridge, Cambridge, UK</p>