

NEIF Approved Projects 2022

| Round | NEIF # | Project Title | Principal Investigator |
|--|--------|---|--|
| Panel A - Radiocarbon (Archaeology) | | | |
| May-22 | 2482 | Keros and the Aegean Early Bronze Age | Dr M J Boyd (University of Cambridge) |
| May-22 | 2495 | OasCiv | Prof D J Mattingly (University of Leicester) |
| May-22 | 2496 | Redefining the chronology of Goltho, Lincolnshire | Prof N Sykes (University of Exeter) |
| May-22 | 2497 | Kinship and mortuary practice in early medieval Wales | Dr R Madgwick (Cardiff University) |
| May-22 | 2514 | Dating the charred, mineralised and biomineralized seed assemblage from Ganeshwar (Rajasthan, India) – an experimental approach for dating poorly preserved charred assemblages | Dr C A Petrie (University of Cambridge) |
| May-22 | 2515 | The Origins of Stonehenge: dating an unfinished and dismantled stone circle and a smaller stone circle among the bluestone sources in Wales | Prof M G Parker Pearson (University College London) |
| May-22 | 2516 | Reconstructing the evolutionary history of sloths using ancient DNA 2022 | Dr S E L Brace (Natural History Museum) |
| May-22 | 2483 | Combined 14C dating and stable carbon isotope analysis of individual amino acids to assess freshwater reservoir effect | Dr A K Styring (University of Oxford) |
| Nov-22 | 2552 | Bougon | Prof C J Scarre (Durham University) |
| Nov-22 | 2555 | Radiocarbon Dating of Prehistoric Human Remains from Gower, South Wales | Prof R Schulting (University of Oxford) |
| Nov-22 | 2559 | Dating the extinction of the wolf in Britain and Ireland | Dr C A Ameen (University of Exeter) |
| Nov-22 | 2595 | Uncovering the driver(s) of modern and archaeological freshwater reservoir effects | Prof R Schulting (University of Oxford) |
| Nov-22 | 2596 | Kinship and Funerary Commemoration at Llandough | Dr R Madgwick (Cardiff University) |
| Nov-22 | 2597 | Dating the Anglo-Saxon Palace at Yeavinger | Dr A R Millard (Durham University) |
| Nov-22 | 2548 | F14C-based assessment of relative bone turnover rates in humans | Prof R Schulting (University of Oxford) |
| Panel A - Radiocarbon (Environment) | | | |
| May-22 | 2478 | CongoPeat | Dr I T Lawson (University of St Andrews) |
| May-22 | 2482 | Keros and the Aegean Early Bronze Age | Dr M J Boyd (University of Cambridge) |
| May-22 | 2495 | OasCiv | Prof D J Mattingly (University of Leicester) |
| May-22 | 2496 | Redefining the chronology of Goltho, Lincolnshire | Prof N Sykes (University of Exeter) |
| May-22 | 2497 | Kinship and mortuary practice in early medieval Wales | Dr R Madgwick (Cardiff University) |
| May-22 | 2514 | Dating the charred, mineralised and biomineralized seed assemblage from Ganeshwar (Rajasthan, India) – an experimental approach for dating poorly preserved charred assemblages | Dr C A Petrie (University of Cambridge) |
| May-22 | 2515 | The Origins of Stonehenge: dating an unfinished and dismantled stone circle and a smaller stone circle among the bluestone sources in Wales | Prof M G Parker Pearson (University College London) |
| May-22 | 2516 | Reconstructing the evolutionary history of sloths using ancient DNA 2022 | Dr S E L Brace (Natural History Museum) |
| May-22 | 2506 | Using a multi-isotope approach to understand carbon cycling and redox dynamics in different coal mine water settings in the South Wales Coalfield | Prof A C Mitchell (University of Wales, Aberystwyth) |
| May-22 | 2498 | Improving socio-ecological resilience to wildfire in the UK | Dr J Woodbridge (University of Plymouth) |
| May-22 | 2499 | Disentangling environmental change in the Amazon: vegetation responses to Holocene drivers in the Yasuni National Park (Ecuador) | Dr R K Smedley (University of Liverpool) |
| May-22 | 2500 | Sources, Sinks and Subsidies of Carbon within Saltmarsh Sediments | Prof W E N Austin (University of St Andrews) |

NEIF Approved Projects 2022

| | | | |
|--------------------------------|------|--|--|
| May-22 | 2501 | When did the spiny water flea invade North America? | Prof A J Tanentzap (University of Cambridge) |
| May-22 | 2502 | Resilient, biodiverse forests in an Anthropocene landscape | Dr J C Berrio (University of Leicester) |
| May-22 | 2503 | Extending Northeast Atlantic records beyond observations to better understand natural climate variability: A pilot study | Dr P L Moffa (Durham University) |
| May-22 | 2504 | Palaeoecological implications of seawall removal at Gibraltar Point, UK | Dr K Beck (University of Lincoln) |
| May-22 | 2505 | Quantifying responses to abrupt climate change in the Andes, South America: methodological testing of RockEval pyrolysis | Dr S Black (University of Reading) |
| May-22 | 2509 | Do peatland wildfires change the age of carbon released into rivers? | Dr J F Dean (University of Bristol) |
| May-22 | 2510 | Landscape age, soil development and dust fluxes in the Kangerlussuaq area of SW Greenland | Prof N J Anderson (Loughborough University) |
| May-22 | 2511 | How do submarine canyons transport and bury particulate organic carbon from rivers to the deep-sea? | Prof P J Talling (Durham University) |
| May-22 | 2512 | Resubmission of R* graded NEIF Panel A proposal 2443.1021 | Dr L J Clarke (Manchester Metropolitan University) |
| May-22 | 2513 | Determining the sources and controls of methane and carbon dioxide emissions from acid mine water and its associated treatment, using radiocarbon analysis | Dr A E Pickard (CEH, Edinburgh) |
| Nov-22 | 2553 | Palaeoecological Evidence for the Domestication of the Wetlands of the Bolivian Amazon | Prof B S Whitney (Northumbria University) |
| Nov-22 | 2554 | Lindisfarne Landscapes: Geoarchaeological Approaches to Human-Environment Relationships | Dr D Petts (Durham University) |
| Nov-22 | 2556 | Testing models of earthquake rupture in continental interior settings: Paleoseismology of the 1911 Mw 7.9 Chon Kemin Earthquake, Kyrgyzstan | Dr R T Walker (University of Oxford) |
| Nov-22 | 2557 | Looking to the Past: A Palaeoecological Study to Inform Restoration of Greater Manchester's Wetlands | Dr W J Fletcher (University of Manchester) |
| Nov-22 | 2561 | Constraining ice-stream retreat and ice-shelf collapse: evidence from The Minch, UK. | Dr T Bradwell (University of Stirling) |
| Nov-22 | 2569 | Developing an age-depth model for sediment from the Isle of Axholme in relation to the 17th century drainage works by Cornelius Vermuyden. | Dr M J Bunting (University of Hull) |
| Nov-22 | 2570 | Using dendrogeochemistry to investigate a mangrove die-back in the Maldives | Dr H K East (Northumbria University) |
| Nov-22 | 2594 | Applying 14C to Trace Sources of Respired CO2 from Laboratory Incubations of Saltmarsh Soils | Prof W E N Austin (University of St Andrews) |
| Panel B - Life Sciences | | | |
| May-22 | 2479 | Trophic ecology of the Upper Zambezi crayfish invasion | Dr J South (University of Leeds) |
| May-22 | 2480 | Methane-derived carbon in upland stream foodwebs: characteristics and significance for carbon cycles | Dr R Briers (Napier University) |
| May-22 | 2481 | Temperate agroforestry and nutrient cycling: does tree row establishment enhance decom | Prof M E Hodson (University of York) |
| May-22 | 2483 | Combined 14C dating and stable carbon isotope analysis of individual amino acids to assess freshwater reservoir effect | Dr A Styring (University of Oxford) |
| May-22 | 2485 | Urban DOM in freshwaters | Dr D S Read (CEH, Wallingford) |
| May-22 | 2486 | Identification of faecal and plant biomarkers in the Chew Catchment | Prof P J Johnes (University of Bristol) |

NEIF Approved Projects 2022

| | | | |
|--|------|---|---|
| May-22 | 2487 | Investigating nutrient cycling, retention and bioavailability of effluents discharged from constructed wetlands | Prof P J Johnes (University of Bristol) |
| May-22 | 2492 | Investigating the relative influence of environmental conditions on the diet composition of E | Dr J J Waggitt (University of Wales, Bangor) |
| Nov-22 | 2538 | Stable isotope analysis for movement and dietary studies of stingrays in Mozambique | Dr D M Bailey (University of Glasgow) |
| Nov-22 | 2539 | Impacts of mangrove loss on ecosystem functioning in West Africa | Dr J B Bell (Centre for Environment, Fisheries and Aquaculture Science) |
| Nov-22 | 2541 | An isotopic analysis of red fox (<i>Vulpes vulpes</i>) diet in central southern England - resubmis | Dr E A Hardouin (Bournemouth University) |
| Nov-22 | 2542 | Exploring ontogenetic niche shifts in invasive lionfish | Dr R Field (University of Nottingham) |
| Nov-22 | 2543 | Investigating Bronze Age apiculture using beeswax lipids | Dr I Berg (University of Manchester) |
| Nov-22 | 2544 | Establishing the trophic role of cleanerfish in temperate reefs with the use of carbon and n | Dr R.A.R. McGill (SUERC) |
| Nov-22 | 2545 | Combined ¹⁴ C dating and stable nitrogen and carbon isotope analysis of individual amino | Dr A Styring (University of Oxford) |
| Nov-22 | 2546 | Using compound specific isotope analysis of amino acids to distinguish aquatic and terres | Dr A Styring (University of Oxford) |
| Nov-22 | 2547 | Understanding the drivers of wood decay in European forests | Dr H M Griffiths (University of Bristol) |
| Nov-22 | 2548 | F ¹⁴ C-based assessment of relative bone turnover rates in humans | Prof R J Schulting (University of Oxford) |
| Nov-22 | 2549 | Behaviour of Emerging Contaminants in Wetland Systems | Prof B K H Kasprzyk-Hordern (University of Bath) |
| Nov-22 | 2550 | Understanding the fate of macroalgae detritus in Antarctic benthic ecosystems, an experim | Dr G Stowasser (British Antarctic Survey) |
| Nov-22 | 2562 | Effect of Introduced Fish on the Diet of the Lake Titicaca Flightless Grebe (<i>Rollandia micr</i> | Prof A G Gosler (University of Oxford) |
| Panel C - Geology & Environment | | | |
| May-22 | 2506 | Using a multi-isotope approach to understand carbon cycling and redox dynamics in different coal mine water settings in the South Wales Coalfield | Prof A C Mitchell (University of Wales, Aberystwyth) |
| May-22 | 2520 | Establishing Last Glacial Maximum deglaciation of the Laurentide Ice Sheet in Pennsylvania | Dr T P Lane (Liverpool John Moores University) |
| May-22 | 2521 | Developing Rb-Sr mica and feldspar standards for in-situ geochronology | Prof C D Storey (University of Portsmouth) |
| May-22 | 2522 | Timing of Pleistocene cirque glaciation in the Simien Mountains, Ethiopia | Dr C M Boston (University of Portsmouth) |
| May-22 | 2523 | Geochronology of rifting along the margin of northwest Laurentia; implications for syn-kinematic dolomitization | Prof C Hollis (University of Manchester) |
| May-22 | 2524 | Testing the potential of stable isotopic analysis of calcretes to understand hydroclimatic change and Middle Palaeolithic hominin population dynamics in the southern Caucasus | Dr J E Sherriff (King's College London) |
| May-22 | 2526 | Investigation of the relationship between diet and skeletal markers of physiological stress. | Dr C Pickard (University of Edinburgh) |
| May-22 | 2527 | Understanding the crustal assimilation control on magmatic evolution at Campi Flegrei, Italy | Prof V C Smith (University of Oxford) |
| May-22 | 2530 | Formation of a giant magmatic sulfide deposit: Using S isotopes to determine contamination as an ore generator and/or modifier of PGE-Ni-Cu-Co mineralisation, Northern Bushveld. | Dr D A Holwell (University of Leicester) |
| May-22 | 2531 | Tracking CO ₂ injection and mineralisation at Carbfix2 and GECO using stable isotopes | Dr S Gilfillan (University of Edinburgh) |

NEIF Approved Projects 2022

| | | | |
|--------|------|--|---|
| May-22 | 2532 | Coupling Si and O isotopes to fingerprint the source of Eoarchaeon continental crust from SW Greenland | Dr P S Savage (University of St Andrews) |
| May-22 | 2534 | Correlation of an Ordovician Mega-eruption using apatite geochemistry | Dr T C Pharaoh (British Geological Survey) |
| May-22 | 2535 | Seasonal marine temperatures in the Pliocene and early Pleistocene of Europe | Dr A L A Johnson (University of Derby) |
| May-22 | 2536 | Detrital zircon constraints on denudation of the West African Craton during the Cretaceous | Prof J Redfern (University of Manchester) |
| May-22 | 2537 | Dating phosphates in exceptional Cambrian fossils | Dr J Vinther (University of Bristol) |
| Nov-22 | 2564 | Constraining the onset of northern hemisphere glaciations onshore | Dr S M Jones (University of Birmingham) |
| Nov-22 | 2565 | Miocene Sr-isotope ($^{87}\text{Sr}/^{86}\text{Sr}$) Reference Curve | Prof J M M C A McArthur (University College London) |
| Nov-22 | 2566 | Local or non-local medieval food sources: Investigating the mobility of main domesticated animals in Carrickfergus, Co. Antrim | Prof E Murphy (Queen's University Belfast) |
| Nov-22 | 2567 | Spatio-temporal evolution and recurrence rates of monogenetic volcanism: Gegham Highlands (Central Armenia) | Dr K J Preece (University of Wales Swansea) |
| Nov-22 | 2568 | Post-subduction magmatism and Cu fertility: Tracing mantle and crust contributions | Dr J Naden (British Geological Survey) |
| Nov-22 | 2571 | Timing of explosive volcanism in the early evolution of the Christiana, Santorini and Kolumbo volcanic group, Greece | Dr R Gertisser (Keele University) |
| Nov-22 | 2573 | Water cycling in high-altitude wetlands – implications for water security in the Peruvian Andes | Dr J D Mackay (British Geological Survey) |
| Nov-22 | 2574 | A new submarine Large Igneous Province at the Cretaceous-Tertiary boundary? $^{40}\text{Ar}/^{39}\text{Ar}$ chronology of the Louisiade Plateau, Coral Sea | Dr L M Kalnins (University of Edinburgh) |
| Nov-22 | 2575 | Character and spatial expression of climate instability in the western Balkans during the Last Glacial-Interglacial transition | Dr G P Wilson (University of Chester) |
| Nov-22 | 2576 | Kilombe Volcano Project: Palaeoanthropology of the central Rift Valley | Prof J A J Gowlett (University of Liverpool) |
| Nov-22 | 2577 | Identifying the source of metasomatic fluids in the REE-bearing Layered Kakortokites at Ilímaussaq, Greenland | Dr K A McFall (University College London) |
| Nov-22 | 2578 | Fluids source and diagenetic history in the Jadar Li-B deposit, Serbi | Dr R N Armstrong (Natural History Museum) |
| Nov-22 | 2579 | Deglaciation of the eastern Icelandic Ice Sheet: dynamics, timing, and drivers | Dr T P Lane (Liverpool John Moores University) |
| Nov-22 | 2580 | Quantifying Holocene environmental change using the Scottish speleothem record | Prof M Lee (University of Glasgow) |
| Nov-22 | 2582 | The role of crustal anatexis and metamorphism in porphyry copper formation: Insights from the Laramide belt, Arizona, southwest USA | Dr F J Cooper (University of Bristol) |
| Nov-22 | 2586 | Sediment provenance and hydrological cycle impacts on biota in Australia during Oceanic Anoxic Events | Dr S Kender (University of Exeter) |
| Nov-22 | 2587 | Reconstructing the explosive volcanic history of the active Hasandağ complex in the Central Anatolian Volcanic Province, Turkey | Prof V C Smith (University of Oxford) |
| Nov-22 | 2591 | U-Pb constraints of peat accumulation rates and terrestrial mean annual temperature change at four Cretaceous-Palaeogene boundary sites in Canada | Dr R M Jerrett (University of Manchester) |
| Nov-22 | 2592 | Lithium for Future technology (LiFT) | Dr K M Goodenough (British Geological Survey) |

NEIF Approved Projects 2022

| | | | |
|--------|------|---|--|
| Nov-22 | 2593 | U-Pb carbonate geochronology of the Garbh Eileach Formation, Scotland: A strengthened case for the Tonian-Cryogenian GSSP | Prof G A Shields (University College London) |
| Nov-22 | 2598 | When and Why does it Rain in the Desert? Utilising unique stalagmite and dust records on the northern edge of the Sahara | Prof M R Rogerson (Northumbria University) |