

# Paul Reynolds, B.A., Ph.D., ICREA

## Current position

ICREA Research Professor, Member of the Equip de Recerca Arqueològica i Arqueomètrica de la Universitat de Barcelona (*ERAAUB: Consolidated Group 2017 SGR 1043*), Secció de Prehistòria i Arqueologia, Dept. d' Història i Arqueologia, Universitat de Barcelona; Member of the Institut d'Arqueologia de la Universitat de Barcelona (IAUB).

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## Higher Education

**1977-1980** B.A. in Archaeology, Institute of Archaeology, University of London

**1982-1991** Ph.D. in Archaeology, Institute of Archaeology, University of London. *Pottery and settlement in the Vinalopó Valley (Alicante, Spain): AD 400-700* (see Reynolds 1985, 1987, 1993, 1995).

## Academic interests

The principal aim of my research is the study of the regional economies, inter-dependence and supply networks of the classical to early medieval Mediterranean (and related areas such as the Aegean, lower Danube-Black Sea and Atlantic sites from Portugal to Britain), primarily through the comparative analysis of the production and regional distribution of ceramics on coastal sites/major ports. This focuses on the documentation of the distribution and quantification where possible of long-distance exports of fine table-wares, amphorae and cooking wares (see Reynolds 1995-*Trade*; 2010a-*Hispania*; 2010b-*LRCW* 3). This, generally quite non-homogeneous distribution, provides primary evidence for a reconstruction of the complex shipping routes that connected specific ports within close-regional networks (e.g. between Levantine ports) or longer inter-provincial networks both within and between the eastern and western halves of the Mediterranean, and beyond.

It is becoming clear that the state-organised as well as private shipments of primary (wheat, marble-stone, raw metals, *annonna* goods in general), secondary and tertiary goods (other foodstuffs in amphorae, ceramics of all classes, brick and tile building material, multi-purpose alum and mastic, metal vessels and recycled metalware, glass vessels, natron and raw glass – the latter well-illustrated by Nabille Schibille's *Glass Routes* project – and a plethora of other minor products filling the spaces; Reynolds 1995, Chapter 5), involved the complex circular movement of goods (outward and return cargoes), e.g. from East to West and back, as well as port hopping and, in some cases, much longer routes linking, say Ephesus to Naples and Marseille, or Antioch with the port-emporium of Vigo and Tintagel beyond, in post-Roman Britain, when key goods were sought at both ends, in this case, raw glass, table wares and eastern wines being traded for British tin.

Primary data for this research derives from my past and current documentation (creation of typologies, classification) and study and quantification of ceramic assemblages and survey material from sites across the Mediterranean (Beirut, the Homs Survey, *Nicopolis-ad-Istrum/Dichin*, Athens, Corinth, Lechaion-Corinth, Patras, *Nicopolis-Actium*, Butrint, Dures, *Leptis Magna*, Carthage and sites in SE Spain), as well as the revision of other published ceramic material.

My detailed work on ceramic sequences in Beirut and Butrint has identified complex site formation processes that affect both the dating of ceramic assemblages and the interpretation of the site sequences. Recent other research has focused on Hellenistic and Roman cuisine and cultural interaction in the Roman East, on the typological repertoire and archaeometric analysis (petrology and chemical) of regional ceramic production in Roman-Late Antique western Greece and the Peloponnese, collaborative work on the analysis of organic residues in Roman amphorae (e.g. the Spanish Ministry funded projects RACA-Med I and II), and my own Barakat Trust funded project on the typology, archaeometry and dating of Islamic pottery in North Africa.

## Principal Projects

### **The Anglo-Lebanese Beirut Souks Excavations: The Classical pottery**

As part of the post-Civil War international excavations in the Beirut Central District, from 1994 the Anglo-Lebanese team investigated a large section of the Hellenistic and Roman-Byzantine layout, covering an area of over 3 ha., comprising a Hellenistic cemetery, several *insulae* of the Classical city (BEY 006: streets and porticoes, houses, shops, bakeries, a fullery, inns, cisterns), part of the Roman Imperial baths (BEY 045), the Roman quay (BEY 007), Medieval defences, Fatimid and Crusader occupation, and post-Medieval glass and silk workshops (BEY 006) (D. Perring 2003, 'The archaeology of Beirut: A report on work in the insula of the House of the Fountains', *The Antiquaries Journal* 83, 195-229).

Reuben Thorpe's *Berytus* monograph on the stratigraphic development of BEY 006, has now been published (2019, *Berytus* 57-58, Beirut Souks 3, *The Insula of the House of the Fountains, Beirut*). The final publication of the pottery, too long overdue, will include a catalogue of sequences of fully quantified, key, stratified pottery assemblages and a full record of all the pottery studied will be made available (c.625000 classified sherds, c. 4000 deposits, c.16000 drawings). Relative quantities of local, regional and imported fine wares, amphorae and coarse wares will be assessed through time in order to reconstruct economic trends and understand Beirut's relationship to its hinterland and sites or specific regions of the Levant, the eastern and western Mediterranean, and beyond (Reynolds in preparation e; see Reynolds 2004, 2005a, 2010-*Hispania*, 2010-LRCW 3, 2019-*Medieval amphorae*). The complex development of Roman Levantine amphorae, including the Beirut amphora type through the 1st century BC to the 7th century AD, has been documented (Reynolds 2000; 2008-FACTA) and the suggestion that it carried wine has been confirmed (Woodworth, M.A. thesis, AUB, 2011; Woodworth and Reynolds 2021). Fifteen deposits of fine wares through the 5th to 7th centuries have been published (Reynolds 2011c) and a guide to the typology and key contexts of the Souks Excavations is being prepared (in advance of the final publication).

### **The World Heritage site of Butrint, ancient *Buthrotum* (Albania)**

The Anglo-Albanian excavations in the city of Butrint, Roman *Buthrotum* (dir. Richard Hodges) has been funded primarily by the Butrint Foundation and David Packard (Packard Humanities Institute, California). The excavations have concentrated on several areas of the Roman town: the Late Roman 'Triconch Palace', the Roman Forum, identified as such in 1995, and the 1st century AD occupation (large private houses, mausolea, pottery workshops, basilica, centuriation) on the Vrina Plain, facing Butrint, across the Vivari Channel and the Roman villa and later basilica at Diaporit, on the eastern shore opposite Butrint. The project has also carried out archaeological and geophysical surveys of the region.

An overview of the archaeology (and ceramics) was published in 2004 (*Byzantine Butrint: Excavations and Surveys 1994-1999* (W. Bowden, R. Hodges and K. Lako (eds.) 2004). A further 7 monographs on the archaeology of the site have now been published by Oxbow. These include a volume dedicated to the results of the excavations of the Triconch Palace (*Butrint 3: Excavations at the Triconch Palace*, 2011). The most recent is dedicated to the archaeology of Medieval Butrint (*Butrint 8*, 2023).

The pottery record comprises some 70000 catalogued sherds, from c. 2600 deposits. All of the work on the classification and drawing of the vast pottery assemblage of the 2000-2006 excavations in Butrint has now been completed, a process which began in 2000 (the Forum was the last site to be tackled, over 2011-2013). For a discussion of Butrint and Mediterranean trade in the Roman period, including tabulated data, see Reynolds (2010-*Hispania and the Roman Mediterranean*; 2010-LRCW 3, 2018f-*Trade, Commerce and the State*). A number of 3rd, 4th and 6th century AD deposits from the Triconch Palace have been fully published (Reynolds, P. 2004: *Byzantine Butrint: Excavations and Surveys 1994-1999*: 224-277 and Appendix 1). An overview of the latest 6th-7th century deposits in the Triconch Palace (Reynolds 2017-*Essays for Richard Hodges*) and ceramic sequences from the so-called *Eastern Villa* of the Vrina Plain have also been published (Reynolds 2020).

The Roman-Late Antique pottery of the Vrina Plain excavations has now been published (Reynolds 2020, *Butrint 7*, volume III), with the stratigraphy, medieval pottery and other finds, such as the glass, small finds and mosaics appearing as *Butrint 7*, volumes I and II (2020). Thanks to a grant from the Butrint Foundation, the pottery volume also includes a major appendix by Leandro Fantuzzi (ERAAUB) on the thin section analyses of local, regional and imported pottery, as well as an illustrated (short) ceramic typology for Butrint (with 22 plates of figures). This grant also funded a major programme of chemical analyses of a wide range of local, regional and imported ceramics (for these, see Research line *Ceramic typologies and Archeometry in Southern Albania and Greece*)

The final volume on the Triconch Palace pottery, which includes a typology for Butrint, the pottery sequence and full catalogue of selected deposits, though well advanced for many years now, has been stalled by work on other areas as these developed (notably, in the Forum and on the Vrina Plain), but has now been taken up again, with the aim to publish this in 2024.

### **The Roman-Late Antique Pottery of *Nicopolis-Actium* (Epirus, Greece)**

Following a longstanding invitation by Konstantinos Zachos, former director of the World Heritage Site of *Nicopolis-Actium*, to study and publish the ceramic finds from over 10 years of excavations at the site, I began work on this long term project in 2010 focusing on the *Actium Victory Monument* (text now in 'layout', due for publication in 2024) and the Byzantine quarter of the city (the insula of the *House of Ekdikos Georgios*, the *Small Nymphaeum*, the *Byzantine Defences*) (Reynolds and Pavlidis 2014; 2017; 2018: 4th, 5th and 7th century assemblages). I am now co-directing the PhD of Evangelos Pavlidis on the Byzantine quarter (University of Barcelona). In 2022 I worked on the classification of finds from the recent excavations in the Great Theatre (Reynolds, Pavlidis and Oikonomou forthcoming).

### **The *Lechaion Harbor and Settlement Land Project* (Corinth, Greece) (2017-2019)**

My work on the Classical to Late Antique pottery of the American School of Classical Studies at Athens excavations at *Lechaion*, the western port of Roman Corinth began in June 2017. The project, directed by Prof. Paul Scotton (California State University, Long Beach), began in 2016, focusing on the site formation and occupation of the harbour and settlement (an account of this work and the pottery was presented at the American AIA Annual Conference, held in San Diego, January 2019). An interim report on the work has been published (Reynolds 2024). A fuller publication of the pottery finds will follow.

### **Ceramic Typologies and Archeometry in Southern Albania and Greece**

As a consequence of 20 years of research on the ceramic repertoire of Butrint (Albania), formerly part of Greek Epirus, and extension of this line of enquiry into present-day Greek Epirus (Thesprotia, Nicopolis) and, more recently, into the northern Peloponnese (Patras and Corinth-Lechaion), my research has focused on the definition of regional ceramic typologies, the publishing of key ceramic contexts and the investigation of ceramic connections across the region. Problems in the separation, characterisation and sourcing of macroscopically indistinguishable fine buff Roman table wares (sigillatas), amphorae and plain wares (Apulian, Corfiote, Epirote, Peloponnesian; Cretan?) have been successfully tackled through tactical archaeometrical analyses (petrology and chemical), work carried out in collaboration with Leandro Fantuzzi (ERAAUB) and Eva Tsantini (ERAAUB), funded by a Butrint Foundation grant (BF 15/11. *Archaeometrical analysis of Butrint classical pottery*).

The first results of the thin-section petrological analyses have now been published, together with a typological summary, in the volume dedicated to the 1st to 7th century pottery contexts and sequences excavated on the Vrina Plain (Butrint) (Reynolds 2020; Fantuzzi 2020: 'Appendix C' in Reynolds 2020). The volume offers a discussion of the sources of not only the 1st to 3rd century AD buff amphora forms (ERAM 1-11: for these, various Epirote origins are indicated) but also of likely Peloponnesian amphorae of the 4th to 6th centuries, small versions of LRA 2 (or, perhaps more likely, derivatives of the Peloponnesian amphora Agora M 235/Remolà Tipo Tardío A) probably also produced in Epirus, and a wide range of imported amphorae and cooking wares from southern Italy and the Aegean. The preliminary chemical results were presented in 2019 (EMAC conference, Barcelona; LRCW 7, Valencia) (Reynolds, Fantuzzi and Tsantini forthcoming).

The co-direction (with Ioannis Iliopoulos, University of Patras-ERAAUB) of Nikoula Kougia's PhD on the archaeometrical-typological study of ceramic production in the Augustan colony of Patras (degree awarded in 2023) has provided the first typological definition and sampling of grey and red slipped fine wares, as well as buff plain wares, that are most probably products of over 50 early Roman kiln sites in the city. The difficulty of distinguishing the 1st century BC to mid-1st century AD grey fine wares of the Po Valley from those of Apulia (i.e. 'Apulian Grey Ware') and these possible Patras products requires comparative chemical analyses. As a first step, the archaeometrical results from Patras and Butrint can be compared, as samples from both sites are available.

In the case of the red sigillatas of the 1st to 3rd century, it is hoped now to add to the Patras-Butrint core data samples of what may be identical products from Nicopolis, the Villa Donatos (Thesprotia) (Reynolds and Ikäheimo 2019), Corinth, Messene, Gortyna and Brindisi. The theory to test is that these were the products of Patras and their wide distribution from Apulia to Crete via Epirus (and surely also Corfu) is key evidence for an important shipping route connecting these Roman provinces.

### **The Imperial Roman amphorae of the American Excavations in the Athenian Agora**

A major project I began in 2006 is the publication of the Imperial Roman amphorae (1st century BC-3rd century AD) from the American excavations in the Athenian Agora (Typology, contexts and chronologies). This has been planned as one of the volumes of the prestigious *Athenian Agora* series. The first, largely completed task, has been to catalogue and draw (1:1) all the complete and well-preserved early Imperial amphorae on display in the Agora stores, many of which were not included in Henry Robinson's *Pottery of the Roman Period* (1959: *The Athenian Agora* 5). The aim also is to fully catalogue the amphora diagnostics (rims, bases, handles) from selected deposits (those relating to the amphorae in the stacks as well as other contexts) in order to provide a more realistic reconstruction of economic trends based on local-regional and imported amphorae.

After what have been too many years of absence, I aim to take up this mammoth task again, in 2023, as part of a project of the Austrian Archaeological Institute at Athens examining the trade relationships between Ephesus and Athens in the Roman and Late Antique periods.

### **The medieval Islamic pottery of *Utica* (Tunisia)**

Excavations at the ancient port of *Utica* (2010-2017) by the INP-Tunisie (Imed Ben Jerbania, Faouzi Ghozzi, dirs.) and the University of Oxford (Elizabeth Fentress, Andrew Wilson, dirs.) have discovered several areas of early Islamic occupation located in the centre of the Roman city (in the Basilica-Forum quarter). The bulk of the Roman pottery has been studied by Maxine Anastasi, with material from Area III being studied by Victoria Leitch and myself. I am responsible for the publication of the Islamic/Medieval ceramics associated with houses and over 20 associated grain silos containing ceramics, animal bones (studied by Tarik Oueslati) and other refuse. This Islamic pottery, which ranges in date from c. 950 to c. 1050, is associated with four main building phases spanning the late Fatimid period (Phase 1a-b, mid 10th century) and the Zirid period (Phase 2, late 10th century; Phase 3, early 11th century; Phase IV, mid-11th century). These phases now provide crucial reference material for a revision of local-regional Islamic ceramic chronologies in North Africa and an examination of their relationship to Islamic pottery typologies in Spain and Sicily (see Reynolds 2012, 2016). The site report is ready for publication. Now that the archaeometrical work on the sources of the ceramics has been done (see my Barakat project), the final report will be submitted for publication 2025.

### ***Early Islamic ceramics and culture in Tunisia: chronologies, sources and vessel use* (Barakat Trust project: 2019 ongoing)**

This project (funded by the Barakat Trust, Oxford) is focused on the revision of typologies and dating of ceramic assemblages of early Islamic date in *Ifriqiya* (modern Tunisia) based primarily on stratified sequences and phases excavated by the INP-Tunisie (Imed Ben Jerbania, Faouzi Ghozzi, dirs.) and Oxford University ((Elizabeth Fentress, Andrew Wilson, dirs.) in the former Roman port of *Utica* and pottery from 4 silos excavated by the University of Alberta (Jeremy Rossiter, dir.) at the site of Bir Ftouha, near Carthage (Reynolds 2012a). This work builds on an initial overview of ceramic trends and cuisine in Late Roman and early Islamic North Africa presented at Dumbarton Oaks (Reynolds 2016), where problems of continuity and the absence of

good stratigraphic contexts for the Islamic period were highlighted. The recent excavations at Utica now provide clearly identifiable cultural horizons for the Fatimid mid-10th century (Phase 1) and the following phases of Zirid rule (Phase 2, late 10th century; Phase 3, early 11th century; Phase IV, mid-11th century): the Fatimid and Zirid phases differ markedly in the types of glazed wares and associated amphorae (for a summary of these changes, see Salinas, Pradell and Reynolds 2020, 2023, 2024). The Utica sequences allow now a re-dating of the Bir Ftouha material to the Fatimid period and not the Zirid period as I previously suggested.

The Barakat grant has provided essential money for the chemical and petrological analysis of some 250 ceramic samples that were collected from the four phases excavated at Utica. This was a large sample, as the aim was to determine the relationship and sources (local, Tunisian, Sicilian?) of the transport amphorae, plain wares and glazed wares through the isolation and identification of: local products, through comparison with samples included from the early Imperial Roman pottery workshops also excavated in Utica; imports from elsewhere in Tunisia, especially the region of Kairouan-Raqqada-Sabra al Mansuriyya, the likely source of most of the glazed wares, small plain ware bowls and jugs; pottery from another Tunisian source (burnished large serving bowls); and possible sources in Sicily. In the latter case, the source of amphorae and perhaps some of the plain forms (Sicily and/or Tunisia) was a key question.

Samples were also taken for the analysis of possible traces of organic residues determining the content and use of the amphorae (wine?) and a one-handed bowl or jar form for liquids (milk products? Wine?), which is a regular component in Islamic contexts across the Maghreb and in Spain (called *jarritos* in Spanish contexts).

The chemical analyses have now been completed by Eva Tsantini (ERAAUB). A report on the petrology of c. 80 samples is being prepared by Claudio Capelli (Università di Genova), who, apart from his many years of research defining Roman ceramic fabrics in Tunisia, Libya, Algeria and Sicily, has been aptly working on the petrology of Islamic pottery from excavations in Sabra al-Mansuriyya and sites in Sicily (including Palermo). It would seem that, despite their similarities, there are no Sicilian imports in the Utica assemblage. The chemical and petrological data suggest that, with the exception of the glazed wares and small flanged bowls (probably from the region of Kairouan-Raqqada-Sabra), the vast majority of the pottery is from a close regional source, perhaps Utica itself.

Collaboration with glaze ware experts Trinitat Pradell (Universitat Politècnica de Catalunya) and Elena Salinas (formerly UPC, now Universidad de Granada) has led to major advances in our understanding of Tunisian Islamic glaze composition and technology in the 10th to first half of the 11th century, first based on the assemblage I published from Bir Ftouha (Salinas, Pradell, Tite and Reynolds 2020), then expanded to include glazed forms from the much larger, better dated assemblage from Utica (Salinas, Reynolds and Pradell 2022, 2023 and 2024). This work documents irrefutably that, contrary to generally held opinion, none of the local glazed wares were produced with tin. The white background of some of the products, previously thought to have been due to the addition of tin, was created through the use of crushed quartz. This led us to the conclusion that the importation of tin for glazed wares in Tunisia occurred well after the Fatimid conquest of Egypt (with tin glazes appearing in Fustat under the Fatimids) and did not run in parallel with the documented earlier use of tin in southern Spain-al Andalus.

### **Roman amphora contents and organic residues analysis (RACA-Med)**

In 2017 Alessandra Pecci (Ramón i Cajal, ERAAUB) and myself were given a three-year grant by the Spanish *Ministerio de Economía, Industria y Competitividad* for the analysis of early Imperial Roman amphora contents from excavations in Cadiz, Rome and Pompeii: HAR2017-84242-P: *Ánforas romanas y análisis de contenidos. El consumo de alimentos de la Baetica, Africa y el Oriente levantino en Gades, Pompeii y Roma (ss I a.C. - I d.C.)* (RACA-Med).

Work on Baetican Ovoid 1 and 4 amphorae of the 1st century BC has been completed (wine products being identified in some (Pecci et al. 2020). Twenty-five African amphorae were analysed from sites in Rome and Pompeii (Pecci et al. 2021). Apart from a few Dr 18 and Schöne-Mau 40, the majority comprise a wide range of late Republican-1st c. AD ovoid forms from *Africa Proconsularis*-North Tunisia ('Africaines anciennes', Ostia LIX, Dr 26) (one workshop attested in *Utica*). Though these were expected to contain olive oil, and represent precursors of the major oil exports of the Imperial period, all bore traces of wine residues and some (only the Dr

26) bore a mix of wine and animal or vegetal material (so perhaps these carried olives in vinegar). Ten early Imperial Agora G 198 amphorae from eastern *Cilicia* - a distinctive variant of Koan amphorae with large, bowed double-rod 'horn' handles and a wide neck and body - were also sampled in Pompeii, where the type is particularly common. As expected, given the special typological characteristics of this type, there were wine residues combined with other vegetal and animal substances. Further work is needed to determine if this amphora carried a mixed product, such as garum with wine, attested by the sources.

In 2021 a second three-year (2021-2024) Spanish Ministry project began, to continue this work, as well as focus on early Imperial presses and amphora production sites in Catalunya: *Ánforas romanas y análisis de contenidos II. Producción y consumo de alimentos de la Baetica, la Laetania y el oriente levantino (siglos I a.C. – III d.C.) (RACA-Med II)* (PID2020-113409GB-I00). Ministerio de Ciencia e Innovación, Proyectos I+D+I. “Generación de Conocimiento”, financiado por MCIN / AEI, 10.13039/501100011033. In December 2022 Francisco Javier Marín Martín joined the team as PhD candidate (UB) to concentrate on the analysis of production in Laetania. In June 2023 the team returned to Pompeii to sample further examples of Agora G 198, together with four Beirut 'carrot' amphorae and two examples of Cilician 'Pompeii V', a type which is actually quite rare in Pompeii, despite being named after the site.

A website for the project has now been launched: [www.ub.edu/racamed](http://www.ub.edu/racamed)

## Grants and funding

- 2021** *Ánforas romanas y análisis de contenidos II. Producción y consumo de alimentos de la Baetica, la Laetania y el Oriente levantino (siglos I a.C. – III d.C.) (RACAMed II)* (PID2020-113409GB-I00). Ministerio de Ciencia e Innovación, Proyectos I+D+I. “Generación de Conocimiento”, financiado por MCIN / AEI, 10.13039/501100011033: 60500 €. Co-directed with Alessandra Pecci (ERAAUB).
- 2019** Barakat Trust (Oxford). *Early Islamic ceramics and culture in Tunisia: chronologies, sources and vessel use*. £7000. October 2019-2023. P.I.
- 2019** Submission of application for an **ERC Advanced Grant** (2499227 €): *Re-framing the Roman Economy. Mapping the economic networks of the Byzantine Mediterranean from the Black Sea to Atlantic Britain: AD 300-700 (ByzNetMed)*. Not funded.
- 2017** Ministerio de Economía, Industria y Competitividad. HAR2017-84242-P. *Ánforas romanas y análisis de contenidos. El consumo de alimentos de la Baetica, Africa y el Oriente levantino en Gades, Pompeii y Roma (ss I a.C.- I d.C.) (RACA-Med)*. Co-directed with Alessandra Pecci (ERAAUB). 30.250€ (2017-2020).
- 2015** BF 15/11. *Archaeometrical analysis of Butrint classical pottery*. Work in progress at the ERAAUB. Competitive Grant, Butrint Foundation. 11.300€.
- 2014** Application (with Paul Arthur, University of Salento) for **ERC Advanced Grant** (2498036 €): *Adriatic economies and ceramic networks, from Hellenism to the Middle Ages (Ceram-Ad)*. Not funded.
- 2013** BF 13/2. *Classification of Hellenistic and Roman pottery for publication of the Butrint Forum I excavations*. Competitive Grant, Butrint Foundation: 11.514€.
- 2008** ICREA/ESF Exploratory Workshop *Late Roman Fine Wares: solving problems of typology and chronology* (University of Barcelona, 6-8 November 2008). 14.000€.

## Supervision of Theses

- PhD from 2022** Javier Marín Marín. *La producción vinaria en la Layetania: estudio arqueológico y caracterización arqueométrica de ánforas y dolia*. Universitat de Barcelona. PhD carried out as part of the project *RACA-Med II* (PID2020-113409GB-I00). Co-directors: Alessandra Pecci and Verónica Martínez Ferreras.
- PhD from 2021** Evangelos Pavlidis. *The Byzantine quarter of Actia Nicopolis (Epirus, Greece): a review of the archaeological and socio-economic evidence for the 3rd to 7th centuries*. Universitat de Barcelona. Co-director: Prof. Gisela Ripoll (UB). From September 2021.
- PhD 2023** Nikoula Kougia. *The city of Patras and the relation with two other great cities colonized by Augustus, Nikopolis and Butrint: an archaeometrical approach and study of local and*

*regional ceramic production and distribution*. University of Patras (Greece). From 2016. Degree awarded October 2023.

- PhD 2017** Marshall Woodworth. *Absorbed organic residue analysis of amphorae from the Black Sea region (3rd to 6th c. AD): analyses and methodological considerations*. St Catherine's College, Oxford. Co-directors : Prof. M- Pollard (RLAHA, Oxford) and Prof. A. Wilson (School of Archaeology, Oxford). Degree awarded 2017.
- PhD 2016** Maxine Anastasi. *Roman Malta : ceramics and trade*. All Souls College, Oxford. Joint director with Andrew Wilson. Degree awarded January 2016.
- PhD 2015** Cristina Nervi (University of Genoa, Italy). *Insedimenti e sviluppo del paesaggio di Nora (CA) dalla Repubblica al tardoantico*. Joint director with B.M. Giannattasio (University of Genoa). Degree awarded 2015.
- MA 2011** Marshall Woodworth. MA Thesis, Dept. of History and Archaeology, University of Beirut: *Organic residue analysis of Beirut amphorae by chemical analytical techniques*. Passed 2011.

## PhD/Habilitation Jury member

- 2023** Member of PhD Jury (15th December 2023), Université Aix-Marseille and Università di Palermo: Filippo Pisciotta. *Trafic commercial dans le canal de Sicile à l'époque romaine. Les amphores du musée Baglio Anselmi de Marsala*.
- 2019** Member of PhD Jury (18th December 2019, Universitat de Barcelona): Simona Faedda. *Analisi di due domus tardo antiche a nord del Foro di Traiano (Roma). Stratigrafia e studio del materiale ceramico*.
- 2018** Member of PhD Jury (11th December 2018, Universitat de Barcelona): Jerònima Riutort Riera. *Caracterización arqueométrica de cerámica tardorromana de cocina del nord-este de la península ibérica*.
- 2018** Member of PhD Jury (October 2018, Université Paris 1 Panthéon-Sorbonne): Joachim Le Bomin, *De la Méditerranée vers l'Atlantique : les importations de céramiques méditerranéennes dans l'ouest des Gaules durant l'Antiquité tardive (du milieu du IIIe s. au début du VIIe s. de n. e)*.
- 2015** Member of PhD Jury (December 2015, Universitat de Barcelona): Leandro Fantuzzi, *Caracterización arqueométrica de ánforas tardorromanas del nordeste de la península ibérica*.
- 2015** Member of PhD Jury (December 2015, Université Paris I-La Sorbonne): Patricia Ghanimé-Marion, *Le village de Liftāyā dans le War'r basaltique (région de Homs/Émèse, Syrie) aux époques romaine et protobyzantine*.
- 2014** Member of PhD Jury (December 2014, Université Paul-Valéry Montpellier III): G. Duperron, *Arles et Lyon, ports fluviaux de l'Empire romain. Le commerce sur l'axe rhodanien du 1er s. av. J.-C. au VIIe s. ap. J.-C.*
- 2014** Member of Jury for the promotion (*Habilitation*) of Dr. Michel Bonifay-CNRS, Centre Camille Jullien, Maison Méditerranéenne des Sciences de l'Homme, Aix-en-Provence.

## Peer Reviewing/Reader/Referee

**Peer Review for:** *Antiquité Tardive*, *Archeologia Medievale*, *Antiquity*, *Archaeology of Food and Foodways*, *Association pour l'Antiquité Tardive*, *Atiqot*, *Études et Travaux* (Polish Academy of Sciences), *HEROM* (Journal of Hellenistic and Roman Material Culture, Leiden), *Levant*, *Pyrenae*, *Journal of Ceramic Research* (SRMKA) (Karamanoğlu Mehmetbey University), *Journal of Roman Archaeology*, *The American Journal of Archaeology*, *The Polish Centre for Mediterranean Archaeology*.

## Series Editor

- 2010 ongoing** Founder and Joint-editor (with Miguel-Ángel Cau Ontiveros [ICREA] and Michel Bonifay [CNRS]) of the series for research and publication of *Roman and Late Antique Mediterranean Pottery (RLAMP)*, published by Archaeopress, Oxford (RLAMP 1-19 have been published).

## Invited lectures and seminars

- 2023** Invited speaker. ‘Changing maritime networks: the circulation of pottery and other goods over the 5th to 7th centuries’. In the workshop *GlassRoutes: Systems of exchange in the medieval world*. Organised by Nadine Schbille, Les Treilles (Tourtour, France), 9th - 14th October 2023.
- 2023** Invited Speaker. ‘Beirut and the West: Comparing western amphora imports and distribution networks beyond Greece and the Aegean’. Workshop, *Living and consuming as a westerner: Central and western Mediterranean goods and peoples in Greece and Asia Minor (5th century BC to 7th century A)*. Athens branch of the Austrian Archaeological Institute (ÖAW), 15-16th February 2023.
- 2022** Powerpoint. *De Amèrica a Àsia: una recerca global*. Research undertaken by the ERAAUB research group. This includes a section by A. Pecci/P. **Reynolds** on the *RACA-Med* project and two sections by **P. Reynolds** on his research in Greece and Albania (late 2nd century BC-7th century AD typologies and archaeometry) and on the 10th-11th century Islamic pottery of Utica (Tunisia) (typologies and archaeometry). I Jornada de Recerca de l'Institut d'Arqueologia de la Universitat de Barcelona (IAUB). Museu d'Arqueologia de Catalunya (MAC). 13th December 2022.
- 2022** Key-note Speaker. ‘Tracing exports and commercial routes from the Byzantine East to Spain and the Atlantic in the 6th and 7th centuries: a review of the evidence’. *32nd Congress of Rei Cretariae Romanae Fautores*. Athens 25th-30th September 2022.
- 2022** Poster. A. Pecci, S. Mileto, L. Toniolo and **P. Reynolds**. ‘Preliminary results of organic residues analysis of Agora G 198 amphorae found in Pompeii - The RACA-Med project’. *32nd Congress of Rei Cretariae Romanae Fautores*. Athens, 25th-30th September 2022.
- 2022** Invited Speaker. **P. Reynolds**, E. Pavlidis and S. Oikonomou, ‘Excavations in the Great Theatre of Nicopolis (2012 -2022): a preliminary study of the pottery finds and dating’, *Scientific Symposium on the Great Theatre of Nicopolis; The new finds from the recent excavations and enhancement of the monument*, Preveza, 5th-6th September 2022.
- 2021** Invited Speaker. T. Pradell, E. Salinas and **P. Reynolds**. ‘Glazed wares and ceramic sequences in Islamic Utica (Tunisia): transitional phases through the Fatimid to Zirid periods (c. 950-1050)’. in the conference, *Le forme del vetro. Tecnologie a confronto. Produzioni vitree e invetriate in Sicilia, Italia peninsulare e al-Andalus tra IX e XII secolo*, École française de Rome, 21-22 October 2021.
- 2020** Invited Speaker. ‘Tracing exports and commercial routes from East to West: placing the ceramic assemblage and glass factory of Benalúa (Alicante) in context’. Symposium: *Distant Seas, Connected Worlds: Tintagel, Britain and Greece in late Antiquity*. British School at Athens, 22nd January 2020.
- 2019** Invited Speaker. ‘Ongoing research in Roman-Byzantine Greece and Albania’, *LRCW 7. Late Roman Coarse Wares, Cooking Wares and Amphorae in the Mediterranean. Archaeology and Archaeometry*. Valencia.
- 2019** Poster. J. Marchand, J. Le Bomin and **P. Reynolds**. ‘Proto-LR 1 Amphorae found at *Taposiris Magna* (Egypt): Some elements of a long lasting trade?’. *LRCW 7. Late Roman Coarse Wares, Cooking Wares and Amphorae in the Mediterranean. Archaeology and Archaeometry*, Valencia.
- 2019** Poster. **P. Reynolds**, E. Tsantini and L. Fantuzzi, ‘Typologies and Archaeometry in *Buthrotum*/Butrint (Albania) from the Hellenistic period to Late Antiquity: Archaeometrical analyses of amphorae and plain utilitarian wares (local, regional and long distance imports). *European Meeting on Ancient Ceramics (EMAC)*, Barcelona, 16th-18th September 2019.
- 2019** Poster. ‘Spatial Patterns of the ceramic production in Colonia Augusta Achaica Patrensis’. N. Kougia, H. Simoni, **P. Reynolds**, I. Iliopoulos, V. Xanthapoulou, A. M. Pollatou. *European Meeting on Ancient Ceramics (EMAC)*, Barcelona, 16th-18th September 2019.
- 2019** Invited paper. A. Pecci, S. Mileto and **P. Reynolds**, ‘The transport of goods. Achievements, problems and perspectives in the organic residue analysis of amphorae’, in the workshop *ArchaeOrganics*, Rome, 20th-21st June 2019.
- 2019** Invited paper. ‘The Pottery in Lechaion: Work in Progress. Some general trends and key deposits’. In Session 3G: *Colloquium Land and Sea at Lechaion Harbor, Greece: A Synthetic Presentation of Ongoing Archaeological Investigations at the Lechaion Harbor and*



- Settlement Land Project*, at the Annual Archaeological Institute of America Conference, 2nd-5th January 2019, San Diego.
- 2018** Poster. A. Pecci, **P. Reynolds**, S. Mileto, D. Bernal-Casasola, J.M. Vargas Girón, S. Vichi and J. Bustamente. 'Preliminary study of the contents carried in ovoid Baetican amphorae found in Gades (El Olivillo, Cádiz)'. *Ex Baetica Amphorae II*. Universidad de Sevilla, December 2018.
- 2018** Poster. A. Pecci, **P. Reynolds**, S. Mileto, D. Bernal-Casasola, J.M. Vargas Girón, S. Vichi and J. Bustamente. 'Preliminary study of ovoid Baetican amphora contents from El Olivillo (Gades)'. *Congreso SGI (Società Geologica Italiana)*, SIMP (Società Italiana de Mineralogía e Petrografia), Catania 2018, (12-14 September 2018, Catania).
- 2017** Paper. B. Forsén and **P. Reynolds**. 'Revealing the secrets of the tower: New evidence on the life in the Roman villa of Agios Donatos of Zervochori'. *Archaeological activity and research in north west Greece and the Ionian Islands*. University of Ioannina (Greece). 23-26th November 2017.
- 2017** Invited Paper. 'Amphorae in Beirut from the Ummayyads to the Crusaders and Fatimids: a guide to trends in local, regional and long distance imports'. Seminar on *Early and High Medieval transport containers (8th-12th C.)*. *Production centers, contents, networks of exchange*, École française de Rome. 16th-18th November 2017.
- 2017** Key Speaker. 'Pottery and Mediterranean economic exchange networks under the Arabs in the 8th century: Contrasting the Levant, North Africa and Spain'. International Conference. *The 8th century: Patterns of transition in economy and trade throughout the Late Antique, Early Medieval and Islamicate Mediterranean*, 4th-7th October 2017. Institut für Klassische Archäologie Freie Universität, Berlin.
- 2016** Discussant. Session on *North Africa: Territories, Centres of production and Trade in the ancient Mediterranean* (Part 2 of Session 30 'Rome and the Mediterranean: Artefacts, Goods and Trade'), *Roman Archaeology Conference-RAC/TRAC 2016*, University of La Sapienza, Rome (16th-19th March 2016).
- 2015** Invited paper 'Amphorae of the Roman East', International Interactive Conference on *Roman Amphora Contents* (October 2015, Cádiz).
- 2015** Poster. **P. Reynolds** and E. Pavlidis. 'A 4th century deposit from a new building behind the Small Nymphaeum, Nicopolis-Actium', in the International Conference *Roman Archaeology in Greece* (8th October 2015, Athens) (Reynolds and Pavlidis 2018).
- 2014** Invited paper 'Ceramic distribution and supply systems in the Byzantine East', *LRCW 5. Fifth International Conference on Late Roman Coarse Wares, Cooking Wares and Amphorae in the Mediterranean: Archaeology and Archaeometry*, Alexandria, Egypt, Institut Française d'Alexandrie, 6th-10th April 2014).
- 2014** Invited paper 'Sliced rim casseroles: scrutinising culinary practices and identity in the Levant', *11th Roman Archaeology Conference*. Reading, 27th-30th March 2014.
- 2013** Invited paper 'The distribution of amphorae in the late Roman East'. *Amphorae loquuntur. L'apport des inscriptions sur amphores à l'histoire de la production et du commerce de l'Antiquité Tardive (Ve-VIIe s.)* (Orgs., Dominique. Pieri and Jean-Luc Fournet). Université Paris I (Panthéon-Sorbonne) (17th-18th May 2013).
- 2013** Invited paper. 'Imitaciones' (y tipologías interconectados y culturales) en el Oriente'. II Congreso Internacional de la SECAH, *Ex Officina Hispania*. Braga (Portugal), 4th April 2013.
- 2013** 'Amphorae of northern Lebanon: a preliminary typology', *East Mediterranean amphorae 'Per Terram, Per Mare: Production and Transport of Roman Amphorae in the Eastern Mediterranean* (Nicosia, Cyprus, April 2013).
- 2012** **P. Reynolds** and E. idis, 'A 5th century AD pottery deposit from a *cloaca* cleaning shaft of the *cardo* next to Basilica A, Nikopolis (Greece)'. Conference in honour of Angelika Douzougli and Konstantinos Zachos, Ioannina (Epirus, Greece) (4th-6th October 2012) (Reynolds and Pavlidis 2017).
- 2012** Invited Inaugural lecture. 'We are what we eat? Ceramics cuisine and commerce in Roman Phoenicia'. *Rei Cretariae Romanae Fautores* 28th International conference, Catania. (23-30th September 2012).
- 2012** Invited paper: 'From Byzantine Africa to Arab Ifriqiya: tracing ceramic and economic trends through the 6th to 11th centuries'. Dumbarton Oaks (Washington), 2012 Spring Symposium on *Rome Re-imagined: Byzantine North Africa, c. 400-800* (Jonathan Conant and Susan Stevens, orgs.) (27th-29th April 2012). (Reynolds 2016).
- 2012** Pennsylvania State University. Seminar on Roman pottery for undergraduate-post-graduates Philadelphia (16th February 2012).

- 2011** Invited public lecture. Maltese Archaeological Society (Valetta). ‘Roman Beirut-Berytus: Ceramics, cuisine and commerce’ (24th February 2011).
- 2010** Invited paper. ‘We are what we eat? Ceramics cuisine and commerce in Roman Phoenicia’. *Roman Archaeology/Theoretical Archaeology Conference, Oxford (England)* (26th March 2010).
- 2010** Invited seminar. ‘Supply networks of the Roman East and West: interaction, fragmentation and the origins of the Byzantine economy’. *Centre for Byzantine Studies, University of Nottingham (England)* (24th March 2010).
- 2010** Invited paper. ‘The Homs Survey: Contrasting Levantine trends in the regional supply of fine wares, amphorae and kitchen wares (Hellenistic to early Arab periods). *Roman pottery in the Levant: Local production and regional trade. Round Table*, Deutsches Archäologisches Institut, Berlin (19th-20th February 2010). (Reynolds 2014).

### **Archaeological stays of research**

- July 2023** **Ephesus**. Study of ceramics from the Austrian excavations. 16th-30th July.
- June 2023** **Pompeii**. Collection of samples for amphora contents analysis and drawing (*RACAMed II*) (PID2020-113409GB-I00). 25-30th June.
- May-June 2023** **Carthage**. Study for publication of 4th century deposits from the excavations at **Bir al Jebbana** (dir. Jeremy Rossiter, University of Alberta). 31st May-14th June.
- June 2021** **Lechaion Harbor and Settlement Land Project (Lechaion-Corinth, Greece)**. P.I. Classification of Classical-Late Antique pottery. Excavations of the American School of Classical Studies (Athens) (Dir. Paul Scotton, California State University, Long Beach).
- June 2019** **Lechaion Harbor and Settlement Land Project (Lechaion-Corinth, Greece)**. P.I. Classification of Classical-Late Antique pottery. Excavations of the American School of Classical Studies (Athens) (Dir. Paul Scotton, California State University, Long Beach).
- Dec 2019** **Pompeii**. Collection of samples for amphora contents analysis (P.I.: HAR2017-84242-P).
- Aug 2018** **Patras (Greece)**. Study and sampling of material from Roman pottery kiln sites in Patras for archaeometrical analyses (with Nikoula Kougiá).
- June 2018** **Lechaion Harbor and Settlement Land Project (Lechaion-Corinth, Greece)**. P.I. Classification of Classical-Late Antique pottery. Excavations of the American School of Classical Studies (Athens) (Dir. Paul Scotton, California State University, Long Beach).
- April 2018** **Utica-Utique (Tunisia)**. P.I. Classification of Islamic pottery of the INP-Tunisie/University of Oxford/British School at Rome excavations.
- March 2018** **Cádiz**. Collection of samples for amphora contents analysis (P.I.: HAR2017-84242-P).
- Dec 2017** **Institute of Nautical Archaeology (INA), Bodrum (Turkey)**. a) Study for publication of western Mediterranean and Levantine ceramics from the 11th century AD Serçe Limani shipwreck. b) Study of finds from the 7th century AD Yassi Ada shipwreck. At the invitation of Fred van Doorninck and the director of the Bodrum INA Research Centre, Tuba Ekmekçi.
- Oct 2017** **Vigo and Braga (Spain)**. Study and sampling (with Leandro Fantuzzi) of eastern Mediterranean pottery imports from excavations in Vigo and Braga, at the invitation of Adolfo Fernández (University of Vigo) responsible for the publication of these finds.
- June 2017** **Lechaion Harbor and Settlement Land Project (Lechaion-Corinth, Greece)**. P.I. Classification of Classical-Late Antique pottery. Excavations of the American School of Classical Studies (Athens) (Dir. Paul Scotton, California State University, Long Beach).
- June 2017** **Sanctuary of Artemis at Asea (Tripoli, central Peloponnese, Greece)**. Excavations of the Finnish Institute at Athens (Dir. Björn Forsén). Classification of the Roman pottery.
- April 2017** **Utica-Utique (Tunisia)**. P.I. Classification of Islamic pottery of the INP-Tunisie/University of Oxford/British School at Rome excavations.
- Jun 2015** **Nicopolis-Actium (Greece)**. Classification of Roman pottery. 4th century deposit from the building behind the Small Nymphaeum (Reynolds and Pavlidis 2018).
- Mar 2015** **Utica-Utique (Tunisia)**. P.I. Classification of Islamic pottery of the INP-Tunisie/University of Oxford/British School at Rome excavations.
- Jul 2014** **Dichin (Bulgaria)**. Consultant, Revision of the amphorae. British-Bulgarian Excavations of the Fortress of Dichin (Dir. A. Poulter) (Poulter et al. forthcoming-Oxbow 2019).
- Jun 2013** **Nicopolis-Actium (Greece)** P.I. Classification of pottery from the **Augustus Victory Monument**.

- Jul-Aug 2013** **Butrint.** Classification of Hellenistic and Roman pottery for publication of the **Butrint Forum I** excavations (Dave Hernández, Nôtre Dame University, dir.). Competitive Grant, Butrint Foundation: 11,514 euros.
- Oct 2012** **Thesprotia (Greece).** Classification of Roman pottery from the **Villa of Agios Donatos**. Excavations of the Finnish Institute at Athens (Dir. Björn. Forsén).
- Jun-Jul 2012** **Butrint.** Spot dating, pottery drawing and consultancy for the **Albanian Training School Excavations** of a Roman villa and mausoleum in the **Vrina Plain (VPT)** (Reynolds forthcoming e).
- Jun-Jul 2012** **Butrint.** Classification of Hellenistic and Roman pottery for publication of the **Butrint Forum I** excavations (Dir. Dave Hernandez, Nôtre Dame University).
- Aug 2011** **Nicopolis-ad-Istrum/Dichin (Bulgaria)** (Dir. Andrew Poulter, University of Nottingham). Pottery consultant. Preparation of Dichin Fortress pottery report (by the late Vivien Swan). Jane Timby is responsible for the checking and presentation for publication of the manuscript. We also checked the fabric collection and identification for *Nicopolis-ad-Istrum* and Dichin.
- Jul 2011** **Butrint.** Spot dating, pottery drawing and consultancy for the **Albanian Training School Excavations** of a Roman villa and mausoleum in the **Vrina Plain (VPT)**.
- Jul 2011** **Butrint.** Classification of Hellenistic and Roman pottery for publication of the **Butrint Forum I** excavations (Dir. Dave Hernandez, Nôtre Dame University).
- Jul 2010** **Butrint.** Spot dating and pottery drawing for the ‘**Albanian Training School Excavations**’ of a Roman villa and mausoleum in the **Vrina Plain (VPT)**.
- Jul 2010** **Butrint.** Classification of Hellenistic and Roman pottery of **Butrint Forum I** (Dir. Dave Hernandez, Nôtre Dame University).
- Jul 2010** **Butrint.** Classification of Roman pottery for publication of the **Vrina Plain** excavations.
- Jul 2010** **Thesprotia.** Classification of Hellenistic and Roman pottery from the **villa of Agios Donatos excavations** and **Survey of Thesprotia** (Epirus, Greece), a project of the **Finnish Institute** (B. Forsén, dir.) (Reynolds 2011d; Forsén, Reynolds and Patteri 2011).
- Jul 2009** **Butrint.** Spotdating and weighing of all the ceramics of the **Vrina Plain** excavations (with Emmanuele Vaccaro and Maxine Anastasi). Classification of Roman pottery for publication of the **Vrina Plain**.
- 2008** **Sidon (Lebanon).** Examination of Hellenistic-Roman pottery from the Lebanese excavations (2nd September 2008).
- 2008** **Jiyé (Lebanon).** Examination of Roman pottery workshop material (Polish Excavations), with Ula Wicenciak. Material of Jiyé and Beirut sampled for PIXE analysis, CNRS Lebanese Atomic Energy Commission (Beirut).
- 2008** **Tripoli (Lebanon).** Examination/dating of **Aïn Ikrine Temple** pottery (Hellenistic to Medieval) (with Alia Fares).
- 2008** **Butrint.** Spot dating of **Western Defences** and **Vrina Plain**.
- 2008** **Butrint.** Spot dating and weighing of all **Villa of Diaporit** material (with Emmanuele Vaccaro and José Cristóbal Carvajal López).
- May 2007** Examination of **Baalbek** Roman pottery, with Hanna Hamel (her PhD thesis) (in the UB, Barcelona) (14th May 2007)..
- Jun 2007** **Athenian Agora.** Work on the **Roman Imperial amphorae**.
- July 2007** **Butrint.** Spot dating of **Vrina Plain, Diaporit, Forum, Western Defences**.
- July 2007** **Butrint.** Classification of the **Triconch Palace** pottery.
- From Jun 2006** **Athens.** Classification and preparation of the volume *Imperial Roman Amphorae, 1st century BC to 3rd century AD*, for the **American Excavations of the Athenian Agora** series (American School at Athens). So far work (cataloguing and drawing) has been carried out over the summers of 2006, 2008, 2010 and 2011.
- From Jul 2006** **Butrint.** Spot dating of **Forum, Vrina Plain** and **Acropolis** excavations.
- Jun 2006** **Durres (Albania).** Classification and preparation of the report on the Classical pottery of the joint Anglo-Albanian excavations of the *Macellum* (dirs. J.J. Wilkes and Afrim Hoti).
- Nov 2006** **Ravenna.** Examination of Classe warehouse (amphorae, fine wares and imported cooking wares).
- 2005** **Beirut.** Sampling of Syrian and Lebanese amphorae for analysis at the CNRS Lebanese Atomic Energy Commission (Beirut) (Roumié et al. 2006).
- Jul 2005** Work preparing the exhibits for the new **Butrint Museum**.
- Jul 2005** **Butrint.** Spotdating of **Forum** and **Vrina Plain**.
- Jul 2005** Classification of **Forum** Contexts 26 and 49 for the Durres RCRF congress (October 2006) (Reynolds, Hernández and Çondi 2008).
- May 2005** **Tyre (Lebanon).** Examination of Roman pottery., Japanese excavations of the necropolis.

- 2004-2005** **Homs (Syria).** Classification of Classical and later pottery on the **Homs Survey Project** (Durham University) (Reynolds 2014; forthcoming i).
- 2004** Examination of **Tintagel** and **Bantham** pottery imports (with Vivien Swan and Richard Jones).
- 2004** Beirut. Study of **Tyre Survey** pottery (Lebanon). Material now in the AUB. (Dirs. Kevin Butcher and Reuben Thorpe).
- 2004** **Kamed el Loz (Lebanon).** Examination of Hellenistic-Roman material (German/DAI mission) (20.8.2004).
- 2004** **Yannouh (Lebanon).** Examination of Hellenistic and Roman material from the French Excavations (Dir. P. Gatier; ceramicist, D. Pieri).
- 2004** **Tripoli?** Study of **Akkar Survey** material (N Lebanon) (German/DAI, dir. Karen Bartl).
- 2004** **Butrint.** Spot dating of **Diaporit** (Hellenistic-Republican material-extension of excavations of site), **Vrina Plain** and **Forum**.
- 2004** **Butrint.** Classification of **Triconch Palace** pottery.
- 2001/2004** **Beirut.** Classification of pottery from the **Beirut pottery kiln (Site BEY 015)**. Part of the research undertaken for the project *Développement des analyses par faisceau d'ions; application à l'étude du patrimoine archéologique du Liban* (between the Ion Beam Analysis Laboratory of the Lebanese Atomic Energy Commission (Beirut) and the Laboratoire de Céramologie of the Maison de l'Orient Méditerranéen (Lyon). (Directors: Dr Anne Schmitt [Lyon] and Dr Mohammad Roumié [Beirut]). (Reynolds *et al.* (2010), Waksman *et al.* (2005a), Lemaître *et al.* (2005) and Roumié *et al.* (2004)).
- 2003-2006** **Beirut.** In collaboration with Mohammed Roumié at the CNRS Lebanese Atomic Energy Commission (Beirut). *Elemental analysis of Lebanese archeological objects using Ion Beam: a contribution to establish a database of ceramics in Lebanon* (Roumié *et al.* 2006).
- Jul 2003** **Butrint.** Classification of the pottery of the **Triconch Palace**.
- Jul 2003** **Butrint.** Spotdating of **Diaporit**, **Vrina Plain** and **Triconch Palace** pottery during excavations.
- Jul 2003** **Nicopolis-Actium.** Visit and examination of the 3rd century dump by the gate (and other material studied by John Hayes).
- 2002** **Syria trip.** Visit to **Tartus**, **Antakia/Antioch**, **Arsuz-Rhosus**, walk along the coast to **Seleucia**, then the **Limestone Massif** villages (Beyho and Qalb Loz).
- 2002** **Kition (Cyprus).** Examination of Roman pottery from the French excavations at Kition and Salamis (ceramicist, Sandrine Marquié).
- 2002** **Zeugma-on-the-Orontes (Turkey).** Classification of Roman amphorae, **British excavations** (Reynolds 2013a).
- 2002** **Durres (Albania).** Classification of Roman pottery from the **British excavations of the Town Walls** (Reynolds 2003e).
- 2002** **Butrint.** Classification of Roman Pottery of **Diaporit** and the **Triconch Palace**.
- 2002** **Butrint.** Spot dating of **Vrina Plain** and ongoing **Triconch Palace** excavations.
- 2002** **Butrint.** Study of old **Albanian excavations (Gymnasium;Vrina Plain-baths)**.
- 2001** **Butrint.** Classification of Roman Pottery of **Diaporit** and the **Triconch Palace** (Butrint).
- 2001** **Marseille.** Examination of late Roman material from La Bourse and Arles.
- 2001** **Arles.** Examination of Roman amphorae from Arles-L'Esplanade Excavations (Dir. J. Piton).
- 2001** **Lyon.** Examination of amphorae from excavations in Lyon (Sanctuaire de Cybele and La Favorite)(thanks to Séverine Lemaître).
- 2001** **Lyon.** Invitation kindly organised by Y. Waksman to study the Maurice Picon/JeanYves Empereur collection of survey material-samples (LRA 1 et al. kiln sites) at the Laboratoire de Céramologie of the Maison de l'Orient Méditerranéen (Lyon) (visits to Arles and Marseille).
- 2000** **Butrint.** Classification of Roman pottery of **Diaporit** and **Triconch Palace**.
- From 2000** **Butrint (Albania).** P.I. Classification and publication of the Hellenistic-Roman-Late Antique Pottery of the British Excavations in **Butrint**, as well as the dating of sequences (funded primarily by the Butrint Foundation and David Packard) (*Triconch Palace, Forum, Vrina Plain, Villa of Diaporit, Acropolis, Western Defences; Vrina Plain Training Excavations/NPT*).
- 1999** **Butrint (Albania).** Classification of Roman pottery and Medieval amphorae from the 1994-1999 British excavations (Dir., Richard Hodges, UEA) (Reynolds 2004b).
- Jun 1998** **Carthage (Tunisia).** Classification of pottery. Canadian excavations of the Roman bathhouse and cemetery of **Bir el Jebbana** (Dir., Jeremy Rossiter, University of Alberta, Canada).
- Sep 1997** **Leptis Magna (Libya).** Classification of Roman pottery from the British excavations (Dir., Hafed Walda, King's College, London).

- Jun 1997** **Carthage (Tunisia)**. Examination of pottery from the Tunisian excavations of the **Theodosian Wall-Belisarian Ditch** (Dirs. Abdelmajid Ennabli/Gary Evans).
- Jun 1997** **Carthage (Tunisia)**. Classification of pottery from the Canadian excavations of the Roman bathhouse and cemetery of **Bir el Jebbana** (Dir., Prof. Jeremy Rossiter, University of Alberta, Canada).
- Sep 1996** **Leptis Magna (Libya)**. Classification of Roman pottery from the British excavations (Dir., Hafed Walda, King's College, London) (Reynolds 1997).
- Jun 1996** Classification of late 10th/early 11th century AD Islamic pottery from the **Canadian excavations at Bir Ftouha, Carthage (Tunisia)** (Reynolds 2012).
- Jun 1996** **Carthage (Tunisia)**. Classification of pottery, Canadian excavations of the Roman bathhouse and cemetery of **Bir el Jebbana** (Director, Jeremy Rossiter, University of Alberta, Canada).
- 1996-2006** **Beirut**. Classification of the Classical pottery and Medieval amphorae from the Anglo-Lebanese Beirut Souks excavations (sites BEY 006, 007 and 045), for final publication in the ongoing AUB Beirut Souks Excavations report series (published in *Berytus*) (see Reynolds in preparation e, Reynolds 1999, 2000a-b, 2003a, c and d, 2005a and c, 2010-*Hispania passim*, 2010-LRCW 3, 2011; Roumié *et al* 2004, Waksman *et al*. 2005a-b, Reynolds *et al*. 2010).
- Jun-Dec 1995** **Lincoln**. Ceramics consultant and illustrator, **Lincoln Archaeological Unit**.
- Sept 1992** **Lambaesis (Algeria)**. Classification of ceramic building material, British excavations (Dir. Steve Roskams, University of York). Unpublished.
- Sept 1986** **Monreale (Sicily)**. Classification of pottery from the **Monreale** survey, NW Sicily (Dir. Jeremy Johns, Oxford University).
- 1982-1991** **Alicante-London. Preparation of Ph.D. Thesis**, Institute of Archaeology, University of London. *Pottery and settlement in the Vinalopó Valley (Alicante, Spain): AD 400-700* (Reynolds 1985, 1987, 1993, 1995).
- 1980-1981** **Valencia**. Vicente Cañada Blanch Scholarship. Study of African Red Slip Ware (and Late Roman finds) from **Roman Valencia** (Reynolds 1984).
- 1978** **Valencia**. Study of the **Roman irrigation system** (left bank of the River Turia) and dating of Roman sites. Awarded prize for the best dissertation of 1978 (Institute of Archaeology). Unpublished.

## Publications

### Books

**2020**. *Volume 3. The Roman and Late Antique Pottery from the Vrina Plain Excavations*, in R. Hodges, S. Greenslade and S. Leppard (eds.), *Butrint 6. Excavations on the Vrina Plain*. Oxbow, Oxford. 318 pages. ISBN 978-1-78925-221-7: <https://www.oxbowbooks.com/oxbow/butrint-6-excavations-on-the-vrina-plain-volume-3.html>

**2010**. *Hispania and the Roman Mediterranean, AD 100-700: Ceramics and Trade*. (Duckworth, London) (372 pages). ISBN 978-0-7156-3862-0.

**1995**. *Trade in the Western Mediterranean, AD 400-700. The ceramic evidence*, British Archaeological Reports, International Series 604. Oxford. (403 pages). ISBN 0-86054-782-5.

**1993**. *Settlement and pottery in the Vinalopó Valley (Alicante, Spain): AD 400-700*, British Archaeological Reports, International Series 588. Oxford. (403 pages and 150 pages of figures, 3 microfiches: Catalogue). Published with the aid of a British Academy grant. ISBN 0-86054-749-3.

**1987**. *El yacimiento tardorromano de Lucentum (Benalúa-Alicante): las cerámicas finas*. Catálogo de fondos del Museo Arqueológico 2, Diputación Provincial de Alicante, Alicante. (165 pages). ISBN 84-505-6681-9.

### Articles and Chapters:

**Forthcoming (submitted 2007)**. 'The Classical and early Islamic pottery', G. Philip *et al.*, *The Homs Hinterland Project (University of Durham)*.

## Published

**2024.** ‘The Roman Pottery’, pp. 673-684, in P. Scotton et al. ‘Report of the First Three Seasons of the Lechaion Harbor and Settlement Land Project (2016-2018)’, *Hesperia* 93.4: 617-700.

**2024.** ‘The Pottery’. In K. L. Zachos (ed.), *The Victory Monument of Augustus at Nicopolis. The Tropaeum of the Sea Battle of Actium*, Vol. II. Research Association of Nicopolis. Athens 2024: 47-176.

**2024.** ‘Necrológica [Obituary]. John Walker Hayes, 21.4.1938-27.2.2024’, *Boletín de la Sociedad de Estudios de la Cerámica Antigua en Hispania (SECAH)* 15, Octubre 2024: 8-9.

**2024.** ‘John Walker Hayes, 21.4.1938-27.2.2024. A personal tribute by Paul Reynolds’, *Current World Archaeology*, 125, 52-53.

**2021.** ‘The oil supply in the Roman East: identifying modes of production, containers and contents in the eastern Empire’, in D. Bernal-Casasola, M. Bonifay, A. Pecci and V. Leitch (eds.), *Roman Amphora Contents. Reflecting on the Maritime Trade of Foodstuffs in Antiquity. In Honour of Miguel Beltrán Lloris. Proceedings of the Roman Amphora Contents International Interactive Conference (RACIIC) (Cadiz, 5-7 October 2015)*, RLAMP 17, Archaeopress, Oxford: 307-354.

**2020.** ‘The Roman and Late Antique Pottery’, pp.166-180. In O.J. Gilkes, E. Glass, V. Hysa, I. Parangoni and P. Reynolds, ‘The Eastern *Villa Suburbana* and Its *Pars Rustica* on the Vrina Plain’, in D. Hernandez and R. Hodges (eds.), *Butrint 7. Beyond Butrint. Kalivo, Mursi, Çuka e Aitoit, Diaporit and the Vrina Plain surveys and excavations in the Pavllas River Valley, Albania 1928-2015: 155-182*. Oxbow, Oxford.

**2018a.** ‘African Red Slip Ware’. *Oxford Dictionary of Late Antiquity (ODLA)*. Oxford University Press.

**2018b.** ‘Çandarli Ware’. *Oxford Dictionary of Late Antiquity (ODLA)*. Oxford University Press.

**2018c.** ‘T.s. hispánica tardía’. *Oxford Dictionary of Late Antiquity (ODLA)*. Oxford University Press.

**2018d.** ‘Phocian Red Slip Ware/Late Roman C’. *Oxford Dictionary of Late Antiquity (ODLA)*. Oxford University Press.

**2018e.** ‘Sigillées Dérivées Paléochrétiennes (DSP)’. *Oxford Dictionary of Late Antiquity (ODLA)*. Oxford University Press.

**2018f.** Reynolds, P., “The Supply Networks of the Roman East and West: Interaction, Fragmentation and the Origins of the Byzantine Economy”, in A. Wilson, and A. Bowman (eds.), *Trade, Commerce and the State in the Roman World* (Oxford Studies on the Roman Economy 4). Oxford University Press, Oxford: 353-395.

**2018g.** ‘Amphorae in Beirut from the Umayyads to the Crusaders: A guide to trends in local and imported products’, *Archeologia Medievale* 45: 91-110.

**2017.** ‘Butrint in the late 6th to 7th centuries: contexts, sequences and ceramics’, in J. Mitchell, J. Mooreland and B. Leal (eds). *Encounters, Excavations and Argosies. Essays for Richard Hodges*. Archaeopress, Oxford: 262-274.

**2016.** ‘From Vandal Africa to Arab *Ifriqīya*: tracing ceramic and economic trends through the 5th to the 11th centuries’, in S. Stevens and J. Conant (eds.), *North Africa under Byzantium and Islam*, *Dumbarton Oaks Byzantine Symposia and Colloquia* (Spring Symposium on *Rome Re-imagined: Byzantine North Africa, c. 400-800*, 2012), Harvard University Press, Cambridge MA: 129-171.

**2015.** ‘Material culture and the economy in the age of Saint Isidore of Seville (6th and 7th centuries)’, in J.-P. Caillet, I. Velázquez and G. Ripoll (eds.), *Isidore de Séville et son temps, Antiquité Tardive* 23, Paris (Brepols): 163-210.

**2014.** ‘The Homs Survey (Syria): Contrasting Levantine trends in the regional supply of fine wares, amphorae and kitchen wares (Hellenistic to early Arab periods)’, in B. Fischer-Genz, Y. Gerber and H. Hamel (eds.),

*Roman pottery in the Levant. Local production and regional trade. Proceedings of the round table held in Berlin, 19-20 February 2010*, Roman and Late Antique Mediterranean Pottery 3, Archaeopress, Oxford: 53-65.

**2013.** 'Transport Amphorae of the First to Seventh Centuries: Early Roman to Byzantine Periods', in W. Aylward, (ed.), *Excavations at Zeugma, Conducted by Oxford Archaeology*, Volume II, 93-161, Plates 43-74. The Packard Humanities Institute, Los Altos, California.

**2012a.** 'The Pottery', in Rossiter, J., Reynolds, P. and MacKinnon, M., 'A Roman bath-house and a group of Early Islamic middens at Bir Ftouha, Carthage', *Archeologia Medievale* 39 (2012, 245-282): 250-273.

**2012b.** 'Beirut kiln site, BEY 015'. Entry for the Levantine Ceramics Project website. <http://www.levantineceramics.org/workshops/12>

**2012c.** 'North Lebanese FAM 43A'. Entry for the Levantine Ceramics Project website. <http://www.levantineceramics.org/wares/61>

**2012d.** 'Workshop X Ware'. Entry for the Levantine Ceramics Project website. <http://www.levantineceramics.org/wares/64>

**2011a.** 'A note on the development of Cypriot Late Roman D forms 2 and 9', in M. À. Cau, P. Reynolds and M. Bonifay (eds.), *LRFW 1. Late Roman Fine Wares: Solving problems of typology and chronology. A review of the evidence, debate and new contexts*, Roman and Late Antique Mediterranean Pottery 1, Archaeopress, Oxford: 57-65.

**2011b.** 'A 7th century pottery deposit from Byzantine *Carthago Spartaria* (Cartagena, Spain)', in M. À. Cau, P. Reynolds and M. Bonifay (eds.), *LRFW 1. Late Roman Fine Wares: Solving problems of typology and chronology. A review of the evidence, debate and new contexts*, Roman and Late Antique Mediterranean Pottery 1, Archaeopress, Oxford: 99-127.

**2011c.** 'Fine wares from Beirut contexts, c. 450 to the early 7th century' in M. À. Cau, P. Reynolds and M. Bonifay (eds.), *LRFW 1. Late Roman Fine Wares: Solving problems of typology and chronology. A review of the evidence, debate and new contexts*, Roman and Late Antique Mediterranean Pottery 1, Archaeopress, Oxford: 207-230.

**2011d.** 'Pottery', in Forsén, B. and Reynolds, P., 'An early closed deposit at the Roman villa of Agios Donatos', in Forsén, B. and Tikkala, E. (eds.), *Thesprotia Expedition II. Environment and Settlement Patterns* (PMFIA XVI), Helsinki: 247-267.

**2010.** 'Trade networks of the East, 3rd to 7th centuries: the view from Beirut (Lebanon) and Butrint (Albania) (fine wares, amphorae and kitchen wares)', in S. Menchelli, S. Santoro, M. Pasquinucci and G. Guiducci (eds.), *LRCW3. Late Roman Coarse Wares, Cooking Wares and Amphorae in the Mediterranean: Archaeology and archaeometry. Comparison between western and eastern Mediterranean [Parma-Pisa 26th-30th March 2008]*, British Archaeological Reports IS 2185, Oxford: 89-114.

**2009.** 'Beirutis set one fine table' Main Gate. American University of Beirut Quarterly Magazine (online) Main Gate. American University of Beirut Quarterly Magazine (online), 7, no. 4. <http://staff.aub.edu.lb/~webmgate/summer2009/online3.htm>

**2008.** 'Linear typologies and ceramic evolution', *FACTA (A Journal of Roman Material Culture Studies)* 2 (2008, published 2009): 61-87.

**2007.** 'Cerámica, comercio y el Imperio Romano (100-700 d.C): perspectivas desde Hispania, Africa y el Mediterraneo oriental', in A. Malpica and J.C. Carvajal López (eds.), *Estudios de cerámica tardorromana y altomedieval, (Primer taller sobre la cerámica tardorromana, Universidad de Granada, [March 2005])*. Granada: 13-82.

**2006.** 'Appendix 2. The classification of the Persian and classical pottery. Methods and Ceramic Phasing (CP dates)', in S. Jennings, *Vessel Glass from Beirut. BEY 006, 007 and 045*. *Archaeology of the Beirut Souks, 2, Berytus* 48-49 (2004-2005: published 2006): 295-298.

- 2005a.** ‘Levantine amphorae from Cilicia to Gaza: a typology and analysis of regional production trends from the 1st to 7th centuries’, in J.M. Gurt i Esparraguerra, J. Buxeda i Garrigós, and M.A. Cau Ontiveros (eds.), *LRCW I. Late Roman Coarse Wares, Cooking Wares and Amphorae in the Mediterranean: Archaeology and Archaeometry* (Barcelona, 14-16th March 2002), British Archaeological Reports, International Series 1340. Oxford: 563-611.
- 2005b.** ‘Hispania in the late Roman Mediterranean: Ceramics and Trade’, in K. Bowes and M. Kulikowski (eds.), *Hispania in Late Antiquity. Current perspectives*. Brill, Leiden and Boston: 369-486.
- 2005c.** ‘Cerámicas de carácter local, regional y de importación en el Valle del Vinalopó (Alicante). Contribución al estudio del comercio en la Tardo-antigüedad en la zona sureste de España durante los siglos V a VII’, in A.M. Poveda Navarro and J.C. Márquez Villora (eds), *El espacio religioso y profano en los territorios urbanos de occidente (siglos V-VII)* (congress held at Elda, April 1991), *Alebus*, 6 (1996): 217-252.
- 2004a.** ‘The Pottery’ in R. Ortali and B. Stuart. ‘Two rock-cut Roman tombs in Chhîm’, *BAAL*, 6 (2002): 107-134.
- 2004b.** ‘The Roman pottery from the Triconch Palace’, ‘The Medieval amphorae’ and ‘Appendix 1. Catalogue of Roman ceramics and selected medieval pottery from Butrint 1994-99’, in R. Hodges, W. Bowden and K. Lako, *Byzantine Butrint. Excavations and Surveys 1994-99*. Oxbow, Oxford: 224-277, 327-395.
- 2004c.** ‘Appendix 2: The classification of the Persian and Classical pottery: methods and ceramic phasing (CP dates)’, in K. Butcher, *Small change in ancient Beirut. Coins from BEY006 and 045*, *Archaeology of the Beirut Souks*, 1, *Berytus* 45-46 (2001-2002: published 2004): 293-296.
- 2004d.** ‘Italian fine wares in 1st century AD Beirut: the assemblage from the cistern deposit BEY 006 12300/12237’. In J. Poblome, P. Talloen, R. Brulet and M. Waelkens (eds.), *Early Italian Sigillata. The chronological framework and trade patterns. International ROCT Conference* (Catholic University of Leuven, May 7th-8th 1999), *Babesch Supplement* 10. Leuven: 117-131.
- 2003a.** ‘Lebanon’ in the Table-Ronde section, ‘De Rome à Byzance; de Fostat à Cordoue. Evolution des faciès céramiques en Méditerranée, Ve-IXe siècles’. In C. Bakirtzis (ed.), *VIIè Congrès International sur la Céramique Médiévale en Méditerranée, Thessaloniki*, 11-16 Octobre 1999. Athens: 536-546.
- 2003b.** ‘Spain, Portugal and the Balearics: 4th-7th century (Late Roman, Byzantine and Visigothic)’, in the Table-Ronde section, ‘De Rome à Byzance; de Fostat à Cordoue. Evolution des faciès céramiques en Méditerranée, Ve-IXe siècles.’. In C. Bakirtzis (ed.), *VIIè Congrès International sur la Céramique Médiévale en Méditerranée, Thessaloniki*, 11-16 Octobre 1999. Athens: 571-585.
- 2003c.** ‘Pottery and the economy in 8th century Beirut: An Umayyad pottery assemblage from the Roman Imperial baths (BEY 045)’. In C. Bakirtzis (ed.), *VIIè Congrès International sur la Céramique Médiévale en Méditerranée, Thessaloniki*, 11-16 Octobre 1999. Athens: 725-734.
- 2003d.** ‘Amphorae in Roman Lebanon: 50 BC to AD 250’, *Archaeology and History in Lebanon* (formerly National Museum News), Issue 17 (Spring 2003): 120-130.
- 2003e.** ‘The pottery’ in A. Gutteridge and A. Hoti, ‘The walled town of Dyrrachium (Durres): New light on the early defences,’ *Journal of Roman Archaeology* 16: 367-379.
- 2002.** ‘The pottery’, in W. Bowden, R. Hodges and K. Lako, ‘Roman and late-Antique Butrint: excavations and survey 2000-2001’, *Journal of Roman Archaeology* 15: 221-229.
- 2000a.** ‘The Beirut amphora type, 1st century BC-7th century AD: an outline of its formal development and some preliminary observations of regional economic trends’, *Rei Cretariae Romanae Fautorum Acta* (Ephesus, 1998), 36. Abingdon: 387-395.
- 2000b.** ‘Baetican, Lusitanian and Tarraconensian amphorae in classical Beirut: some preliminary observations of trends in amphora imports from the western Mediterranean in the Anglo-Lebanese excavations in Beirut (BEY 006, 007 and 045)’, in *Congreso Internacional ‘Ex Baetica Amphorae’* (Sevilla-Écija, December 1998). Écija: 1035-1065.



1999. 'Pottery production and economic exchange in 2nd century Berytus: some preliminary observations of ceramic trends from quantified ceramic deposits from the Anglo-Lebanese excavations in Beirut', *Berytus* 43 (1997-1998): 35-110.

1997. 'A 1st century AD pottery assemblage from Lepcis Magna', in H. Walda *et al.* 'The 1996 excavations at Lepcis Magna', *Libyan Studies* 28: 49-63.

1985. 'Cerámica tardorromana modelada a mano, de carácter local, regional y de importación en la Provincia de Alicante', *Lucentum*, 4: 245-267.

1984. 'African Red Slip and Late Roman imports in Valencia', in T. Blagg, R. Jones and S. Keay (eds.), *Papers in Iberian Archaeology*, (British Archaeological Reports, International Series, 193). Oxford: 474-539.

## Articles/Chapters in collaboration

### Submitted-forthcoming

**Reynolds, P.**, Fantuzzi, L. and Tsantini, E. **forthcoming**, 'Typologies and Archaeometry in *Buthrotum*/Butrint (Albania) from the Hellenistic period to Late Antiquity: Archaeometrical analyses of amphorae and plain utilitarian wares (local, regional and long distance imports)'

**Reynolds, P.**, Pavlidis E. and Oikonomou, S. **forthcoming**. 'Excavations in the Great Theatre of Nicopolis (2012 -2022): a preliminary study of the pottery finds and dating'. In *Scientific Symposium on the Great Theatre of Nicopolis*.

### Published

Fernández Fernández, A, **Reynolds, P.**, Scotton, P., Kissas, K., Rodríguez Nóvoa, A. A., Valle Abad, P., Tuset Estany, J., Almeida, S. and Ziskowski, A., 2024. 'Estudiando cerámicas romanas en Lechaion, el puerto de Corinto en la Antigüedad - Counting Roman ceramics at Lechaion, the Ancient Port of Corinth'. In H. González Cesteros and J. Almansa Sánchez (eds.), *Conexiones mediterráneas Actualidad y Perspectiva de la investigación arqueológica española en Grecia continental y el Egeo -Mediterranean connections Present and future of Spanish archaeological research in continental Greece and the Aegean*, (AECID), Instituto Cervantes, Casa Mediterráneo, Asociación JAS Arqueología (Athens). Printed in Spain:151-173. ISBN: 978-84-16725-42-7

E. Pavlidis and **P. Reynolds, 2024**. 'The Sacred Garden of the Monument'. In K. L. Zachos (ed.), *The Victory Monument of Augustus at Nicopolis. The Tropaeum of the Sea Battle of Actium*, Vol. II. Research Association of Nicopolis. Athens 2024: 177-217.

Kougia, N., **Reynolds, P.** and Iliopoulos, I. **2024**. 'Patterns of ceramic production in Colonia Augusta Achaica Patrensis (Patras, Greece): A petrographic and mineralogical approach', *Archaeological and Anthropological Sciences*, 16, Article 184. <https://doi.org/10.1007/s12520-024-02081-7>

Salinas, E., **Reynolds, P.** and Pradell, T. **2024**. 'The 'Dame de Sabra': new insights into the glaze technology of the Fatimids in Ifriqiya (10th century, Tunisia)'. *Journal of Archaeological Science: Reports*, vol. 60 (2024) 104809: 1-6. <https://www.sciencedirect.com/science/article/pii/S2352409X24004371>

Bonifay, M. and **Reynolds, P. 2024**. 'Pottery', in Rutgers, L.V. et al. (eds), *Cambridge Encyclopedia of the Archaeology of Late Antiquity*. Cambridge University Press.

Salinas, E., **Reynolds, P.** and Pradell, T. **2023**. 'Continuity and innovation in glazed tableware consumption in North Africa from the Fatimid to Zirid periods: the case of Islamic Utica'. In F. Colangeli and V. Sacco (eds.), *Le Forme del Vetro, Tecnologie a confronto. Produzioni vitree e invetriate in Sicilia, Italia peninsulare e al-Andalus tra IX e XII secolo*, Mélanges de l'École Française de Rome, 135 (2): 285-300. <https://doi.org/10.4000/mefrm.12478>

- Marchand, J., Le Bomin, J. and **Reynolds, P.** 2022. 'Proto-LRA 1 amphorae from Taposiris Magna (Egypt): a typological and petrological study', *Bulletin de liaison de la Céramique Égyptienne* 31: 87-120.
- Salinas, E., **Reynolds, P.** and Pradell, T. 2022. 'Technological changes in the glazed wares of northern Tunisia in the transition from Fatimid to Zirid rule', *Archaeological and Anthropological Sciences* 14:224 (2022): 1-16. <https://doi.org/10.1007/s12520-022-01690-4>
- Pecci, A., Contino, A., Mileto, S., Capelli, C., Toniolo, L. and **Reynolds, P.** 2021. 'Anfore africane antiche a Pompei: uso e riuso in base all'analisi dei contenuti', *Rivista di Studi Pompeiani* XXXII (2021): 87-102.
- Pecci, A., **Reynolds, P.**, Mileto, S., Vargas Girón, J.M. and Bernal-Casasola, D. 2021, 'Production and transport of goods in the Roman period: residue analysis and wine derivatives in late Republican Baetican ovoid amphorae', *Environmental Archaeology: The Journal of Human Palaeoecology* (online). Routledge: 1-13. <https://doi.org/10.1080/14614103.2020.1867291>
- Woodworth, M. and **Reynolds, P.** 2021. 'The Beirut amphora: residue analysis and contents', in D. Bernal-Casasola, M. Bonifay, A. Pecci and V. Leitch (eds.), *Roman Amphora Contents. Reflecting on the Maritime Trade of Foodstuffs in Antiquity. In Honour of Miguel Beltrán Lloris. Proceedings of the Roman Amphora Contents International Interactive Conference (RACIIC) (Cadiz, 5-7 October 2015)*, RLAMP 17, Archaeopress, Oxford: 161-169.
- Reynolds, P.** and Aleotti, N. 2020. 'Appendix. Notes on Diagnostic Pottery from the 2004 Kalivo excavations', p. 135, in A. Crowson, 'Excavations at Kalivo, 2004', *Butrint* 7, 124-135. Oxbow, Oxford.
- Salinas, E., **Reynolds, P.**, Tite, M.S. and Pradell, T. 2020. 'Polychrome glazed ware production in Tunisia during the Fatimid-Zirid period: New data on the question of the introduction of tin glazes in western Islamic lands', *Journal of Archaeological Science: Reports* 34 (December 2020) 102632: 1-16.
- Forsén, B., Korhonen, K. and **Reynolds, P.** 2019. 'Brick Stamps and Graffiti from Agios Donatos', in B. Forsén (ed.), *Thesprotia Expedition IV. Region Transformed by Empire*, Papers and Monographs of the Finnish Institute at Athens 24, Helsinki 2019: 413-428.
- Reynolds, P.** and Ikäheimo, J. 2019. 'Late Hellenistic and Roman Pottery from the Tower Deposits of Agios Donatos', in B. Forsén (ed.), *Thesprotia Expedition IV*, Papers and Monographs of the Finnish Institute at Athens 24, Helsinki: 317-386.
- Reynolds, P.**, Ripoll, G., Michel D'Annville, C., Dugast, F. 2019. 'L'alimentation dans l'Antiquité tardive (IVe-VIIIe siècles): une introduction'. In Reynolds, P., Ripoll, G., Michel D'Annville, C., Dugast, F. (eds.), *L'alimentation dans l'Antiquité tardive (IVe-VIIIe siècles)*, *Antiquité Tardive* 27 (2019): 15-23.
- Reynolds, P.** and Pavlidis, E. 2018. 'A 4th Century Deposit from a Newly Discovered Building behind the Small Nymphaeum at Nicopolis (Preveza, Greece)'. In V. Di Napoli, F. Camia, V. Evangelidis, D. Grigoropoulos, D. Rogers and S. Vlizos (eds), *What's New in Roman Greece? Recent Work on the Greek Mainland and the Islands in the Roman Period. Proceedings of a Conference held in Athens, 8-10 October 2015*, MEΛETHMATA 80, National Hellenic Research Foundation/Institute of Historical Research. Athens: 195-204.
- Costa, S., **Reynolds, P.** and Vroom, J. 2018. 'Pottery-Roman and Post-Roman'. *Oxford Dictionary of Late Antiquity (ODLA)*. Oxford University Press.
- Costa, S., **Reynolds, P.** and Vroom, J. 2018. 'Pottery in Late Antiquity, AD 300-700'. *Oxford Dictionary of Late Antiquity (ODLA)*. Oxford University Press.
- Reynolds, P.** and Vroom, J. 2018. 'Amphorae'. *Oxford Dictionary of Late Antiquity (ODLA)*. Oxford University Press.
- Reynolds, P.** and Pavlidis, E. 2017. 'An early 5th century pottery deposit from the *cloaca* by Basilica A, Nicopolis (Epirus, Greece)', *σπείρα*. Conference in honour of Angelika Douzougli and Konstantinos Zachos (Ioannina, 1st-3rd November 2012). Athens: 651-666.

Cau, M.A., Albert, R.M., Gurt, J.M., Martinez, V., Mas Florit, C., Pecci, A., **Reynolds, P.**, Ripoll, G., Tsantini, E. and Tuset, F. **2015**. 'Equip de Recerca Arqueològica i Arqueomètrica de la Universitat de Barcelona (ERAAUB) (1992-2015)', *Pyrenae*. Número Especial, 50 Aniversari, 2015: 181-244.

Cau Ontiveros, M.A., Mas Florit, C., **Reynolds, P.** and Ruitort, J. **2014**. 'Two Late Antique deposits from Palma de Mallorca (Balearic Islands, Spain)', in Poulou-Papadimitriou, N., Nodarou, E. and Kilikoglou, V. (eds.), *LRCW 4, Late Roman Coarse Wares, Cooking Wares and Amphorae in the Mediterranean, Archaeology and archaeometry*, BAR International Series 2616 (Archaeopress, Oxford): 1049-1059.

Cau Ontiveros, M.A., Macias, J. Ma., Berni, P. and **Reynolds, P.** **2014**. 'LRCW.NET: A web-site with a virtual laboratory for the study of coarse and cooking wares in the late Antique Mediterranean (<http://www.lrcw.net/>)', in Poulou-Papadimitriou, N., Nodarou, E. and Kilikoglou, V. (eds.), *LRCW 4, Late Roman Coarse Wares, Cooking Wares and Amphorae in the Mediterranean, Archaeology and archaeometry*, BAR International Series 2616 (Archaeopress, Oxford): 617-622.

Mills, P. and **Reynolds, P.** **2014**. 'Amphorae and specialized coarsewares of Ras al Bassit, Syria: local products and exports', in Poulou-Papadimitriou, N., Nodarou, E. and Kilikoglou, V. (eds.), *LRCW 4, Late Roman Coarse Wares, Cooking Wares and Amphorae in the Mediterranean, Archaeology and archaeometry*, BAR International Series 2616 (Archaeopress, Oxford): 133-142.

**Reynolds, P.** and Pavlidis, E. **2014**. 'Nikopolis (Epirus Vetus): an early 7th century pottery assemblage from the 'Bishop's house' (Greece)', in Poulou-Papadimitriou, N., Nodarou, E. and Kilikoglou, V. (eds.), *LRCW 4, Late Roman Coarse Wares, Cooking Wares and Amphorae in the Mediterranean, Archaeology and archaeometry* (Thessaloniki April 2011), BAR International Series 2616 (Archaeopress, Oxford): 451-467.

Fantuzzi, L., Cau-Ontiveros, M.A. and **Reynolds, P.** **2013**. 'Late Roman amphorae from the Eastern Mediterranean in North-eastern Spain: Some Remarks on their Distribution and Provenance', in L. Bombardieri, A. D'Agostino, G. Guarducci, V. Orsi and S. Valentini (eds.), *SOMA 2012. Identity and Connectivity: Proceedings of the 16th Symposium on Mediterranean Archaeology, Florence, Italy, 1-3 March 2012*, BAR International Series 2581, Oxford (Archaeopress): 1023-1032.

**Reynolds, P.** and Vaccaro, E. **2013**. 'Roman pottery: in-phase and residual material', (pp. 226-234), in A. Sebastiani et al. 'The Medieval church and cemetery at the Well of Julia Rufina', in I.L. Hansen, R. Hodges and S. Leppard, *Butrint 4: The Archaeologies and Histories of an Ionian town*, Oxbow, Oxford: 215-244.

Cau, M.À., **Reynolds, P.** and Bonifay, M. **2011**. 'An initiative for the revision of late Roman fine wares in the Mediterranean (c. AD 200-700): The Barcelona ICREA/ESF Workshop', M. À. Cau, P. Reynolds and M. Bonifay (eds.), *LRFW 1. Late Roman Fine Wares: Solving problems of typology and chronology. A review of the evidence, debate and new contexts*, (Roman and Late Antique Mediterranean Pottery 1), Archaeopress, Oxford: 1-13.

Forsén, J., **Reynolds, P.** and Patteri, A. **2011**. 'The Middle to Late Roman Find Assemblage from Darda', in Forsén, B. and Tikkala, E. (eds.), *Thesprotia Expedition II. Environment and Settlement Patterns* (PMFIA XVI), Helsinki: 319-331.

Forsén, B., Forsén, J., Lazari, K., and Tikkala, E., with contributions by A. Freccero, N. Galanidou, M. Lavento, S. Ligkovanlis, O. Palli, **P. Reynolds** and T. Smekalova, **2011**. 'Catalogue of sites in the Central Kokytos Valley', in Forsén, B. and Tikkala, E. (eds.), *Thesprotia Expedition II. Environment and Settlement Patterns* (PMFIA XVI), Helsinki: 73-122.

**Reynolds, P.**, Bonifay, M. and Cau, M.À. **2011**. 'Key contexts for the dating of late Roman Mediterranean fine wares: a preliminary review and seriation', in M. À. Cau, P. Reynolds and M. Bonifay (eds.), *LRFW 1. Late Roman Fine Wares: Solving problems of typology and chronology. A review of the evidence, debate and new contexts*, Roman and Late Antique Mediterranean Pottery 1, Archaeopress, Oxford: 15-32.

Newson, P., Abdulkarim, M., McPhillips, S., Mills, P., **Reynolds, P.** and Philip, G., **2010**. 'Landscape Study of Dar es-Salaam and the Basalt Region of North-West Homs, Syria. Report on work undertaken during 2005-2007', *Berytus* 51-52 (2008-2009, published 2010): 9-35.

**Reynolds, P.**, Waksman, S.Y., Lemaître, S., Curvers, H., Roumié M. and Nsouli, B., **2008-2009**. ‘An early Imperial Roman pottery production site in Beirut (BEY 015): chemical analyses and a ceramic typology’, *Berytus* 51-52 (2008-2009, published 2010): 71-115.

**Reynolds, P.**, Hernandez, D. and Çondi, D. **2008**. ‘Excavations in the Roman Forum of *Buthrotum* (Butrint): first to third century pottery assemblages and trade’, in *Rei Cretariae Romanae Acta* 40 (Durres, September 2006): 71-88.

**Reynolds, P.** and Waksman, S.Y. **2007**. ‘Beirut cooking wares, 2nd to 7th centuries: local forms and north Palestinian imports’, *Berytus* 50: 59-81.

**Reynolds, P.** **2006**. ‘The pottery finds’, pp. 118-121, in I. Kouwatli, H. Curvers, B. Stuart, Y. Sablerolles, J. Henderson and **P. Reynolds**, ‘A pottery and glass production site in Beirut (BEY 015)’, *BAAL* 10 (published 2008): 103-129.

Roumié, M., **Reynolds, P.**, Atallah, C., Bakraji, E., Zahraman, K. and Nsouli, B. **2006**. ‘Provenance study of excavated pottery from Beirut using PIXE cluster analysis’, in *Ion Beam Analysis - Proceedings of the Seventeenth International Conference on Ion Beam Analysis* (Nuclear Instruments and Methods in Physics Research Section B: Beam interactions with Materials and Atoms, 249, Issues 1-2): 612-615.

Lemaître, S. Waksman, S.Y., **P. Reynolds**, Roumié, M. and Nsouli, B. **2005**. ‘À propos de l’origine levantine de plusieurs types d’amphores importés en Gaule à l’époque impériale’, *Actes du Congrès de Blois*, 5-8 mai 2005, SFECAG: 515-528.

Waksman, S.Y., Roumié, M., Lemaître, S., Nsouli, B. and **Reynolds, P.**, **2005**. ‘Une production d’amphores “carottes” à Beyrouth à l’époque romaine?’, *La Revue d’Archéométrie*, 27 (2003 : published 2005): 95-102.

Waksman, S.Y., **Reynolds, P.**, Bien, S. and Trégliá, J.-C. **2005**. ‘A major production of Late Roman ‘Levantine’ and ‘Cypriot’ common wares’, in J.M. Gurt i Esparraguerra, J. Buxeda i Garrigós, and M.A. Cau Ontiveros (eds.), *LRCWI. Late Roman coarse wares, cooking wares and amphorae in the Mediterranean: Archaeology and Archaeometry* (Barcelona, 14-16th March 2002), British Archaeological Reports, International Series 1340, Oxford: 311-325.

Roumié, R., Waksman, S.Y., Nsouli, B., **Reynolds, P.** and Lemaître, S. **2004**, ‘Use of PIXE Analysis technique for the study of Beirut amphora production at the Roman Period’, *Nuclear Instruments in Physics Methods B*, 215 (2004): 196-202.

Bowden, W., Pärzhita, L., Moorehead, S and **Reynolds, P.** **2004**. ‘Archaeology in the landscape of Roman Epirus: preliminary report on the Diaporit excavations, 2002-4’, *JRA* 17 (2004): 413-433.

Gutteridge, A., Hoti, A. and **Reynolds, P.** **2003**. ‘The walled town of Dyrrachium (Durres): new light on the early defences’, *JRA* 16 (2003): 367-379.

### **The Roman and Late Antique Mediterranean Pottery series (RLAMP)**

(co-editor, with M. Bonifay and M.A. Cau)

Cau, M. A., **Reynolds, P.** and Bonifay (eds.) **2011**. *Late Roman Fine Wares 1: Solving problems of typology and chronology. A review of the evidence, debate and new contexts*, *RLAMP* 1, Archaeopress, Oxford (263 pp).

**Mills, P.** **2013**. *The Ancient Mediterranean Trade in Ceramic Building Materials. A Case Study in Carthage and Beirut*, *RLAMP* 2, Archaeopress, Oxford (142 pp).

**Fischer-Genz, B., Gerber, Y. and Hamel, H. (eds.)** **2014**. *Roman Pottery in the Levant. Local Production and Regional Trade. Proceedings of the round table held in Berlin, 19-20 February 2010*, *RLAMP* 3, Archaeopress, Oxford (217 pp).

**Martínez Ferreras, V.** **2014**. *Ánforas Vinarias de Hispania Citerior-Tarraconensis (s. I a.C.-I d.C.). Caracterización Arqueométrica*, *RLAMP* 4, Archaeopress, Oxford (335 pp).

**Fernández, A. 2014.** *El comercio tardoantiguo (ss. IV-VII) en el noroeste peninsular a través del registro cerámico de la Ría de Vigo*, RLAMP 5, Archaeopress, Oxford (541 pp).

**Bes, Ph. 2015.** *Once upon a Time in the East. The Chronological and Geographical Distribution of Terra Sigillata and Red Slip Ware in the Roman East*, RLAMP 6, Archaeopress, Oxford (204 pp).

**Quevedo, A. 2015.** *Contextos cerámicos y transformaciones urbanas en Carthago Nova (s. II-III d.C.)*. RLAMP 7, Archaeopress, Oxford (407 pp).

**Nacef, J. 2015.** *La production de la céramique antique dans la région de Salakta et Ksour Essef (Tunisie)*. RLAMP 8, Archaeopress, Oxford (264 pp).

**Mukai, T. 2016.** *La céramique du groupe épiscopal d'Aradi/Sidi Jidi (Tunisie)*, RLAMP 9, Archaeopress, Oxford (444 pp).

**Vaz Pinto, I., De Almeida, R. R. and Martin, A. (eds.), 2016.** *Lusitanian Amphorae: Production and Distribution*, RLAMP 10, Archaeopress, Oxford (472 pp).

**Ruiz Montes, P., Peinado Espinosa, Ma. V. and Fernández García, Ma. I. (eds.) 2018.** *Estudios para la configuración de las facies cerámicas altoimperiales en el Sur de la Península Ibérica.* RLAMP 11. Archaeopress, Oxford (286 pp).

**González Cesteros, H. and Berni Millet, P. 2018.** *Roman Amphorae in Neuss: Augustan to Julio-Claudian Contexts*. RLAMP 12. Archaeopress, Oxford (143 pp).

**García Vargas, E., de Almeida, R.R., González Cesteros, H. and Sáez Romero, E. (eds.), 2019.** *The Ovoid Amphorae in the Central and Western Mediterranean. Between the last two centuries of the Republic and the early days of the Roman Empire*, RLAMP 13, Archaeopress, Oxford (426 pp).

**Bernal-Casasola, D. and Cottica, D. (eds.), 2019.** *Scambi e commerci in area vesuviana. I dati delle anfore dai saggi stratigrafici I.E. (Impianto Elettrico) 1980-81 nel Foro di Pompei*, RLAMP 14, Archaeopress, Oxford (344 pp).

**Duggan, M., Jackson, M. and Turner, s. (eds.), 2019.** *Ceramics and Atlantic Connections: Late Roman and Early Medieval Imported Pottery on the Atlantic Seaboard, Proceedings of an International Symposium at Newcastle University, March 2014*. RLAMP 16, Archaeopress, Oxford (156 pp).

**Quaresma, J.C. 2021.** *Le commerce de céramiques fines à Ammaia, une ville du sud de la Lusitanie (50 – 550 apr. J.-C.)*, RLAMP 16, Archaeopress, Oxford (228 pp).

**Bernal-Casasola, D., Bonifay, M., Pecci, A. and Leitch, L. (eds.) 2021.** *Roman Amphora Contents. Reflecting on the Maritime Trade of Foodstuffs in Antiquity. In Honour of Miguel Beltrán Lloris. Proceedings of the Roman Amphora Contents International Interactive Conference (RACIIC) (Cadiz, 5-7 October 2015)*, RLAMP 17, Archaeopress, Oxford (504 pp).

**Peeters, D. 2023.** *Shaping Regionality in Socio-Economic Systems: Late Hellenistic - Late Roman Ceramic Production, Circulation, and Consumption in Boeotia, Central Greece (c. 150 BC–AD 700)*. RLAMP 18. Archaeopress, Oxford (394 pp).

**Rizzo, M.S., Parello, M.C., Giannitrapani, M. and Caminecci, V. (eds.) 2023.** *LRCW 6. Late Roman Coarse Wares, Cooking Wares and Amphorae in the Mediterranean: Archaeology and Archaeometry. Land and Sea: Pottery Routes*. RLAMP 19, Archaeopress, Oxford (2 volumes, 974 pp).

### Other edited books

**Reynolds P, Ripoll G, Michel D'Annoville C & Dugast F (eds.),** *L'alimentation dans l'Antiquité tardive (IVe-VIIIe siècles)*, Antiquité Tardive 27, 2019. Turnhout (Brepols) (418 pp).

## Dissemination

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