

XV International Numismatic Congress Taormina 2015
Proceedings

Volume I

UNIVERSITÀ DEGLI STUDI DI MESSINA
DIPARTIMENTO DI CIVILTÀ ANTICHE E MODERNE
CATTEDRE DI NUMISMATICA ANTICA E MEDIEVALE

XV INTERNATIONAL NUMISMATIC CONGRESS
TAORMINA 2015
PROCEEDINGS

I

Edited by
Maria Caccamo Caltabiano

Coeditors
Benedetto Carroccio, Daniele Castrizio, Mariangela Puglisi, Grazia Salamone



Roma - Messina
2017



Printed with the financial contribution of the International Numismatic Council and the Organizing Committee of the XV International Numismatic Congress -Taormina 2015, Chairs of Ancient and Medieval Numismatics - University of Messina.

The Copyright © of the articles is of the Authors, that of the Entire Publication belongs to the Teachers of the Ancient and Medieval Numismatics - University of Messina.

Printed in Italy

2017 - Arbor Sapientiae Editore S.r.l.
Via Bernardo Barbiellini Amidei, 80
00168 Roma (Italia) - tel. 06 87567202
www.arborsapientiae.com
info@arborsapientiae.com
redazione@arborsapientiae.com
ISBN: 978-88-94820-31-7

INDEX

VOLUME I

PREFACE

<i>Foreword:</i> Maria Caccamo Caltabiano, Mariangela Puglisi	15
<i>Summary Report:</i> Maria Caccamo Caltabiano	17
Saluto del Prof. Giuliano Volpe – Greetings of Prof. Giuliano Volpe, Presidente del Consiglio Superiore ‘Beni culturali e paesaggistici’ - President of Italian Council ‘Cultural Heritage and Landscapes’	26
Saluto della Prof.ssa Aldina Cutroni Tusa	28
LECTIO INAUGURALIS	30
LUCIA TRAVAINI, <i>Mints as Volcanoes: Fire and Technology</i>	

GENERAL NUMISMATICS

AMATO R., MANENTI A., <i>Comunicare le monete. Didattica e divulgazione al Museo “Paolo Orsi” di Siracusa</i>	39
ANGELI BUFALINI G., <i>Il Medagliere MNR, la Banca dati Iuno Moneta e il Bollettino di Numismatica del MiBACT. Un trinomio per la tutela, valorizzazione e fruizione del bene numismatico. Bilanci e prospettive.</i>	43
APOLITO P., <i>Monete medievali da Kyme in Eolide: un rapporto preliminare</i>	47
ARTHUR P., SARCINELLI G., <i>Between computation and exchange: coins (and not coins) from the excavations at the Castle of Lecce - Italy</i>	51
ARZONE A., CAPIOTTI F., <i>Il Catalogo della Collezione di monete greche del Museo di Castelvechio di Verona</i>	56
BALBI DE CARO S., BULIAN G., <i>Il nuovo Museo della Zecca di Roma</i>	62
BALDI E., <i>Online catalogue of the Ostrogoths at the British Museum and possible developments for further research.</i>	67
BATESON J.D., <i>Dr. Hunter and the Prince of Torremuzza’s Sicilian Coins</i>	72
BORBA FLORENZANO M.B., LO MONACO V., GIANEZE RIBEIRO A.M., <i>Ancient Roman coins in the University of São Paulo - Brazil</i>	75
BÖRNER S., <i>Das Heidelberger Zentrum für antike Numismatik</i>	78
BRACEY R., <i>Contributions of die studies to the study of the intensity of ancient coin production: The work-station Problem</i>	83
BRZIC A., <i>Against the History? Vienna Mint and its coinages for Serbia 1868-1914</i>	88
BURRELL B., <i>Coins from a Well at Caesarea Maritima and the Currency of Fifth Century Palaestina</i>	91
CALLATAÏ F. de, <i>Fontes Inediti Numismaticae Antiquae (FINA): a short presentation</i>	95
CARDON T., <i>Les monnaies et méreaux en contexte archéologique: une source pour l’étude du salariat (France, XI^e-XV^e s.)</i>	100
CASSANO M.R., TRAVAGLINI A., FIORIELLO C.S., BRANDI S., CAMILLERI V.G., DE PINTO N., SILVESTRI M., <i>La collezione numismatica del Museo di Santa Scolastica - Bari</i>	105
CAVALLARO E., <i>Sulle vie di una nuova scienza: la trattatistica numismatica tra Cinque e Seicento</i>	109
CHIANTINI C., <i>Un Ripostiglio di IV-V secolo proveniente dagli scavi del Sottosuolo Capitolino</i>	113
CHIMIENTI M., <i>L’archivio della zecca di Bologna</i>	117
CHOWANIEC R., WIĘCEK T., <i>History of town Akrai/Acrae, Sicily, in the light of new numismatic finds</i>	122
CIURCINA C., AMATO R., <i>Segnalazione di rinvenimenti monetali da indagini condotte a Siracusa negli anni novanta del Novecento.</i>	126
CONVENTI A., LAZZARINI L., <i>Analisi chimiche di monete di elettro e oro di Siracusa greca</i>	131
CRISÀ A., <i>Collecting coins and connecting collectors: Government and social networks in the Kingdom of the Two Sicilies (1816-1860)</i>	135
D’OTTONE RAMBACH A., <i>Arabic Coins from the Italian Royal Collection. Addenda to the Corpus Nummorum Italicorum. A Preview</i>	140

GANDOLFO L., <i>Sulle tracce del Salinas. Testimonianze inedite dal suo Museo</i>	144
GARGANO G., <i>Problemi e spunti di riflessione dall'analisi dei rinvenimenti di monete negli scavi archeologici a Vibo Valentia</i>	147
GIANAZZA L., <i>A collaborative inventory of coin finds</i>	151
GIL CURADO T., <i>Contact and Commerce between Portugal and United Kingdom during Medieval and Post-Medieval Period. Numismatic Perspective</i>	154
GRIMALDI J., <i>Il Medagliere del Museo Archeologico Comunale di Frosinone</i>	159
GUSAR K., ŠUČUR J., <i>Numismatic finds from Pakoštane - Crkvina, Croatia</i>	164
HEDLUND R., <i>The Return of the Art Cabinet: Numismatic databases and virtual meeting places</i>	170
HOUMOUZIADIS J., <i>Non-Destructive Assessment of Material Content of Bronze Coins</i>	174
JANKOWSKI L., <i>Studying coin related objects and redefining par anumismatics</i>	179
KOPIJ K., <i>Coin Propaganda and Communication</i>	183
KRISHNAMOURTHY R., <i>The influence of Early Roman Imperial coin symbols on Sangam age Chera and Pandya coins</i>	188
LA MARCA A., <i>Monete da scavo, scavi con monete: il "laboratorio" della Missione Archeologica Italiana a Kyme Eolica</i>	192
LOMBARDI L., RUOTOLO G., <i>Antonino Salinas, Scritti scelti di Numismatica</i>	196
LOPEZ B., ARSLAN E.A., <i>Die Design Reconstruction: Merging Numismatics with Information Technology</i>	199
MARCHAND S., <i>The IBISA System for Computer-Assisted Coin Identification and Hoards Study</i>	204
MARCHESI E., BALDI E., <i>Rinvenimenti numismatici basso-medievali nel contesto archeologico di Monte Lucio (Re)</i>	207
MORELLI A., <i>Monete di epoca romana repubblicana nella collezione numismatica del Museo Nazionale di Ravenna</i>	213
NAPOLITANO M.L., <i>Hubertus Goltzius, totius antiquitatis restaurator: numismatica e storia antica in Sicilia et Magna Graecia (1576).</i>	217
OTERO MORÁN P., GRAÑEDA MIÑÓN P., CRUZ MATEOS M., <i>La nueva exposición y Gabinete Numismático del Museo Arqueológico Nacional (Madrid)</i>	222
PARISOT-SILLON C., CORSI J., SUSPÈNE A., SARAH C., <i>Ancient silver coinages between Rhône and Po (3rd-1st centuries BC). New data from elemental analyses.</i>	227
PELLÉ R., FRANGIN E., CHAPON P., <i>Les petits bronzes tardifs de Massalia: une utilisation extrême ou des frappes récentes. L'exemple de deux lots trouvés en fouille</i>	232
PELLÉ R., ZAABA O., STITI K., SOUQ F., <i>Le lot monétaire de la fouille archéologique de la Place des Martyrs à Alger</i>	237
PELSDONK J., <i>Digital traps. The complexity of publishing numismatic databases on the internet</i>	243
PETER U., WEISSER B., <i>CNT - The web portal for Thracian coins</i>	247
RAMBACH H.J., <i>The coin-collection of Don Carlo Trivulzio (1715-1789)</i>	248
RUOTOLO G., <i>La Sicilia di Filippo Paruta descritta con Medaglie</i>	252
RUSKE A., <i>The new Money Museum of the Deutsche Bundesbank. Experience and outlook</i>	256
SANTANGELO S., <i>Monete e ripostigli della Sicilia araba e normanna nel Medagliere di Siracusa</i>	259
SINNER A., PARDINI G., PIACENTINI M., FELICI A.C., VENDITTELLI M., <i>Analysis of the metal of the coins of Ebusus and Northeastern Spain (3rd-1st C. B.C.E.)</i>	264
SPAGNOLI E., <i>Piombi monetiformi da Ostia e Porto: problematiche interpretative</i>	269
TRAVAGLINI A., CASSANO M.R., CAMILLERI V.G., DE PINTO N., FANIZZA M., FIORIELLO C.S., <i>L'area della Basilica episcopale di Gnatia: la documentazione numismatica</i>	273
TRAVAGLINI A., <i>Monete e riti a Hierapolis di Frigia</i>	276
UJES MORGAN D., <i>Unpublished Greek Coin Finds from Rhizon/Risan in Sir Arthur Evans's Collection, Ashmolean Museum</i>	281
VOGT S., <i>To whom belong the coins? Jewish coin collections, the Nazis and museums of today</i>	286
WILLIAMS D., <i>Joseph Eckhel and his correspondents from Sicily and the south of Italy: the Prince of Torremuzza (Palermo) and Michele Vargas Macchiucca (Naples)</i>	291
WOODS A.R., <i>Twenty-First Century Numismatics: Google and the Digital Exhibition</i>	296
WOYTEK B., <i>Joseph Eckhel and his network of correspondents: a research project on Numismatics in the Age of Enlightenment</i>	299
ZVEREV S., <i>The monetary reforms in Russia in the mid-17th century</i>	303

ANTIQUITY, GREEK

Archaic - Classical

ARENA E., <i>L'emissione a leggenda ΝΕΟΠΟΛΙ(ΤΩΝ) e la fondazione di Tauromenion</i>	307
ARNOLD-BIUCCHI C., VAN SCHAİK K., <i>The meaning of the crab on ancient Greek coins and its relation to ancient medicine: a new approach</i>	313
BERTHOLD A., <i>Considerations on the horses of Maroneia</i>	319
CANTILENA R., <i>Una moneta d'oro di Lampsaco a Poseidonia</i>	323
CHILLÉ M., <i>La moneta dei mercenari nell'Anabasi di Senofonte</i>	328
CONSTANTINESCU B., CRISTEA-STAN D., TALMATCHI G. M., CECCATO D., <i>New information on monetary arrow heads found in Dobroudja based on X-rays analysis of their alloy composition</i>	332
CORFÙ N.A., <i>The Tetartemorion, the smallest pre-Hellenistic silver-coin</i>	339
DESTROOPER GEORGIADIS A., <i>Les Monnaies des fouilles du Département des Antiquités de Chypre à Kourion; la période classique</i>	344
FLAMENT C., <i>État d'avancement du corpus monétaire argien: Les émissions du IV^e siècle av. n. ère</i>	349
GEROTHANASIS D., <i>The early coinage of Kapsa reconsidered</i>	355
GRIGOROVA-GENCHEVA V., PROKOPOV I., <i>New Hoards with Small Denomination Coins of the Island of Thasos (6th - 5th century B.C.): Context, Interpretation and Dating</i>	360
HOFF C., <i>Lycian Tiarate Heads Reconsidered</i>	365
IVANOVA H.I., <i>A retrospect of Apollo in the coinage of Apollonia Pontike</i>	369
KOUSOULAS D.A., <i>Unbearded Hercules on the Coins of the Sicilian cities in the 5th century BC. Some observations of the iconographical type and its spreading in the sculpture</i>	374
KROLL J.H., <i>Striking and restriking on folded flans: evidence from Athens, Cyzicus, (?)Sinope, Elis, Thebes, and Aegina</i>	378
MANENTI A.M., <i>Dee, Ninfe, donne: oggetti di ornamento nell'iconografia delle monete greche e in vari altri reperti del Museo Archeologico di Siracusa</i>	383
MARCHAND S., <i>Electrum Coinage of the Ionian Revolt: the Complete Series of Abydos</i>	387
MARTINO A., <i>Lyre's representation on ancient Greek coins: a musical and political path between symbol and Realien</i>	391
PUEBLA MORON J.M., <i>El astrágalo de Hermes en la moneda de Himera (483-472 a.C.)</i>	395
RACCUA C., <i>Dal "bue" alla civetta. Riverberi di un percorso politico e culturale</i>	399
RUSSO N., <i>Una lettura non tradizionale del ruolo del Sileno: i documenti monetali</i>	405
SALAMONE G., <i>La 'testa femminile' sulle monete greche: funzione giuridica e identità della polis</i>	410
SANTAGATI E., <i>Identità federale nelle emissioni monetali: alcuni esempi</i>	416
SAPIENZA A., <i>La triskeles e le sue varianti iconografiche: analisi diatopica e diacronica dei documenti monetali</i>	420
TEKIN O., <i>Winged-Horse with Bird's Tail: Identification of a Creature on the Coins of Mysia and Troas</i>	425
TRAEGER B., <i>Die Münzprägung und Geschichte von Phliasia (Peloponnesus) bis zum Ende der hellenistischen Zeitepoche</i>	429
TRIFIRÒ M.D., <i>I gesti della divinità: il multiforme Apollo</i>	434
WAHL M.P., <i>Bildkontakte reconsidered. A few remarks on the Adoption of Kimon's Arethusa in Thessaly</i>	439
WELHÖFFER H., <i>Die Nymphen aus Thessalien. Obol aus der Sammlung Wellhöfer</i>	443
WOJAN F., <i>Réflexions sur la nature du monnayage au nom des Éléens: monnayage civique? monnayage de sanctuaire? monnayage de panégyrie?</i>	449

Hellenistic

APOSTOLOU E., <i>Les plinthophores rhodiennes et la fin de ce monnayage</i>	454
AUMAÎTRE H., <i>Akè Ptolémaïs sous les Lagides: un atelier au cœur des problématiques Syro-Phéniciennes</i>	459
BODZEK J., <i>New finds of moulds for casting coin flans at the Paphos agora</i>	463
CALLATAÏ F. de, <i>Greek Overstrikes Database: a short presentation</i>	467
CARRIER C., STEFANAKI V.E., <i>Le système des monnaies de bronze crétoises de l'époque hellénistique</i>	470
CARROCCIO B., <i>Tesorette, corrosione, coniazioni parallele, cronologia: I "Tridenti" di Ierone II</i>	475

CONSTANTINESCU B., OBERLAENDER-TARNOVEANU E., CRISTEA-STAN D., <i>Information on silver and gold Dacian Koson type coins based on alloys composition, analyzed by X-Ray Fluorescence, and on their possible emissions chronology</i>	481
DEROSE EVANS J., <i>What archaeology can tell us about the date of the opening of the civic mint at Sardis, Turkey</i>	486
ILKIĆ M., ČELHAR M., <i>South-Liburnian pre-imperial numismatic finds from Southern Italy and Sicily</i>	489
LANNIN M.N., <i>A Window into Seleucid Regional Mints: Reuse of Obverse Dies in the 3rd-2nd Century BC</i>	493
MAREST-CAFFEY L., <i>Images of Power in Seleukid Persis: A New Study of the Victory Coinage from Susa</i>	497
MORENO PULIDO E., <i>Influencias sículo-púnicas en la amonedación del Fretum Gaditanum</i>	502
GRANDJEAN K., MOUSTAKA A., <i>The Hoard IGCH 270</i>	507
PANAGOPOULOU K., <i>Hellenistic Macedonia Revisited: Some Evidence in Redating the 'Later Macedonian' Silver Alexanders</i>	511
PAVLOVSKA E., <i>A Part of a Rare 'Paeonian' Hoard from Macedonia</i>	516
SOLE L., <i>Riflessioni intorno al ripostiglio IGCH 2132 da Gibil Gabib</i>	521
SPINELLI M., <i>La dea "regale" di Locri Epizefiri</i>	527
TSOUKANELIS K., <i>A New Bronze Coin of Alexander Molossos, Son of Neoptolemos</i>	531
VAN SCHAİK C., <i>The Currency of Medicine: Healing Iconography on the Coins of Triikka, Epidauros, Kos, and Pergamon</i>	535
WOLF D., <i>The Bronze Coinage Reform of Ptolemy II</i>	540

ANTIQUITY, OTHER

Western

CHAVES TRISTÁN F., PLIEGO VÁZQUEZ R., <i>Nuevos testimonios monetales de emisiones Hispano-Cartaginesas en la Península Ibérica</i>	549
GEISER A., <i>Courants monétaires gaulois entre Alpes et Jura</i>	553
GRUEL K., NIETO-PELLETIER S., DUVAL F., <i>Existe-t-il un système monétaire armoricain basé sur le billon à la fin de l'indépendance gauloise?</i>	558
KOCZWARA P., <i>Finds of cisalpine drachms and other Celtic coins in the Central and Southern Italy</i>	563
MILITKÝ J., <i>Das keltische Münzwesen des Horizonts LT C1 und C2 in der Tschechischen Republik</i>	567
MONTANARO S., <i>La monetazione dei centri peuceti</i>	572
NICK M., <i>Celtic Coin Finds in Switzerland: The recent volume of the Swiss Inventory of Coin Finds</i>	577
NICOLAU KORMIKIARI M.C., <i>How monetarized was Numidian society in Antiquity?</i>	580
PARIS E., <i>Circulation monétaire en Languedoc central au Deuxième Âge du Fer (VIe - Ier siècles avant J.-C.): comparaisons diachroniques des agglomérations de Béziers, Magalas et Agde</i>	584
PILON F., <i>Frappe et coulage de monnaies à l'époque gauloise: synthèse de quelques découvertes et caractérisations chimiques récentes</i>	589
RODRÍGUEZ CASANOVA I., <i>Dos nuevos conjuntos de divisores atribuidos a la II Guerra Púnica</i>	594

Eastern

BARKAY R., <i>Portraits of the Nabataean Kings as Depicted on Their Coins</i>	600
GITLER H., TAL O., <i>A Preliminary Report on the Nablus 1968 Hoard of the Fourth Century BC</i>	604
MAGUB A., <i>Coins of Mithradates II of Parthia (c. 121-91 BC)</i>	609
MUESELER W., <i>The place of the two Wekhssere in the history of Lycia</i>	614
SANCINITO J., <i>Parthian Circulation: A study of the Wilson Hoard (IGCH 1816)</i>	619
SCHINDEL N., <i>A Note on the Coinage of Khusro I</i>	623
SHAVAREBI E., <i>The so-called 'Thronfolgerprägungen' of Ardashīr I reconsidered</i>	627
SMAGUR E., <i>So similar and yet so different. The iconography of Kushan pantheon</i>	631
TANDON P., <i>The Identity of Prakāśāditya</i>	636

VOLUME II

ROMAN NUMISMATICS

Roman Republic

BARBATO M., <i>The Roman Republican coins from excavations in the Sacred area of the Largo di Torre Argentina (Rome): New data in the light of recent research</i>	649
BRANSBOURG G., <i>The Currencies of the Roman Republic. Summary of an Argument on Weights and Currency Reform</i>	654
BRUNI V., <i>La moneta provinciale in Spagna durante la guerra sertoriana (82-72 a.C.)</i>	656
D'ANGELO G., MARTÍN ESQUIVEL A., <i>Un lingotto con il segno del "ramo secco" dalla Pinacoteca Civica di Ascoli Piceno</i>	661
HOLLSTEIN W., <i>Zum Prägeort des Sicinius/Coponius-Denars (RRC 444)</i>	666
KATZ R., <i>Muttonis Mutunus: Q. Titius and the Case of the Obverse Head</i>	671
MARTINS MAGALHÃES M., <i>Le monete romane repubblicane del Museo Storico Nazionale di Rio de Janeiro e la Sylloge Nummorum Romanorum Brasil</i>	676
MCCABE A., <i>The Roman Bronze Coinage struck in Apulia and South East Italy in the Second Punic War</i>	681
PIZZILLI E., <i>Il caso dei Bacchanalia nel documento monetale</i>	686
RIPOLLÈS ALEGRE P.P., GOZALBES M., <i>The Unofficial Roman Republican Asses produced in Spain</i>	691
SCHWEI D., <i>Forgers' Misunderstanding of Roman Coin Types</i>	696
ZAWADZKA A., <i>Some Gallic attributes on Roman Republican coins in the light of recent archaeological findings</i>	701

Roman Empire

BRUNI S., <i>An AE3 mule of Priscus Attalus: new light on dating the Urbs Roma Felix series</i>	706
CARBONE F., <i>Semissi pestani a Pompei: dati sulla circolazione</i>	710
CASOLI A., <i>Due conii ritoccati di Nerone</i>	713
CECCARONI E., MOLINARI M.C., <i>I reperti numismatici provenienti dai recenti scavi del santuario di Ercole di Alba Fucens</i>	717
CHIAPPINI A., <i>Virtù e personificazioni nel Libro delle Medaglie da Cesare a Commodo di Pirro Ligorio</i>	720
DEGLER A., <i>Aureus of Postumus with the owner's graffito (Gounthiou)</i>	723
DELL'ORO D'AMICO F., <i>Le Puellae Faustinianae nella monetazione di età antonina</i>	727
DOWLING M.B., <i>The Letter E at Delphi: a reconsideration of Plutarch, Faustina, and the appearance of the mystery on Roman coinage</i>	733
DROST V., <i>The Seaton Down hoard (UK, Devon): c. 22,900 Constantinian nummi</i>	737
ELLITHORPE C., <i>Striking a Dissonant Chord: The Geographical Targeting of Trajan's Debelleror Coinage in Dacia</i>	742
GIROD V., <i>Mammae gratias ago: mères et fils dans le monnayage impérial des Julio-Claudiens</i>	749
KÜTER A., <i>Imitatio Alexandri - Drusus Minor auf einer Tessera des Münzkabinetts der Staatlichen Museen zu Berlin</i>	753
LANCHI C., <i>La circolazione monetaria in epoca adrianea: alcuni esempi da Roma, dall'Italia e dal limes germanico-retico</i>	758
LEMPEREUR O., BLET-LEMARQUAND M., <i>Les frappes de deniers impériaux à Alexandrie à la fin du II^e siècle ap. J.-C. : premiers résultats d'analyses</i>	762
MARVEGGIO C., <i>The Sabetta coin collection</i>	767
MONDELLO C., <i>Nuove osservazioni sui contornati: la serie dei Literaten-Büsten</i>	772
ORTIZ CÓRDOBA J., <i>Set of coins from late antiquity found in the town of Ronda (Málaga, Spain)</i>	777
PERASSI C., <i>Monete dal suburbio di Mediolanum. La documentazione dalla grande fossa di asportazione 10114</i>	782
STAFFIERI G.M., <i>I ritratti senza corona sui bronzi imperiali alessandrini</i>	787
TONISCH M., <i>Prices, wages and values in the Roman Empire: The Analysis of the Epigraphical Evidence</i>	792
VICARI SOTTOSANTI M.A., <i>Testimonianze della circolazione degli antoniniani in Italia meridionale e insulare</i>	797
ZANCHI P., <i>Le monnayage de Diocletien seul empereur (été 285-Mars 286) à Siscia</i>	801
ZIEGERT M., <i>Aus alt mach neu. Nachahmungen und Legitimationsstrategien in der Münzprägung Vespasians</i>	806

Provinces

AWIANOWICZ B., <i>Peculiarities in the legends of Flavian aurei and denarii minted in Syria</i>	812
BILIĆ T., NAĐ M., <i>Coin circulation 3rd c. BC - 31 BC in north-west Croatia</i>	816
BLÁZQUEZ CERRATO C., <i>Circulación monetaria en el territorium de Regina Turdulorum (Casas de Reina, Badajoz, España)</i>	820
BODZEK J., KOPIJ K., SMAGUR E., <i>Finds of Roman Coins in Poland - Lesser Poland. Preliminary Report</i>	825
BREITSPRECHER V.J., <i>Sicheres Zeichen? Asylstädte und ihre Tempeldarstellungen</i>	830
CALABRIA P., <i>Le zecche provinciali: una diversa prospettiva di studio</i>	834
CAMPO M., <i>La moneda en las necrópolis del arco mediterráneo de Hispania (siglos I-II d.C.)</i>	836
CARBONE L.F., <i>The epigraphic attestations of denarii in the Provincia Asia (133 BC - AD 96)</i>	841
CARVALHEIRO PORTO V., <i>Western and Eastern Provincial Roman Coins: a view from the margins</i>	846
CONEJO DELGADO N., <i>Villae Romanas y Via de la Plata: aproximación a la economía rural romana de la parte occidental de la Península Ibérica a través del registro monetario</i>	850
DAHMEN K., <i>The 1740 hoard of Roman denarii from Preussisch-Görlitz near Osterode in Eastern Prussia (Gierłoż/Ostróda in Poland). A find's history and coin catalogue based on a manuscript by Friedrich Wilhelm Stosch</i>	854
DELOUM S., <i>Le Trésor Monétaire Inédit de Guernine (Djendel - Algérie): Étude Historique et Monétaire</i>	857
DI JORIO Francesco, <i>Il culto di Cibele in Gallia: preesistenza di un culto o diffusione di tipologie da Roma verso la "periferia" dell'impero? L'evidenza numismatica di Avennio</i>	862
DRAGANOV D., <i>The coinage of Anchialus: Iconography</i>	866
DYMOWSKI A., <i>The inflow of Roman Republican coins to the territory of present-day Poland</i>	875
FLUECK J.E., <i>The Augustean monetary circulation at Lugdunum on the basis of stratigraphical and statistical analyses. New dating clues for the Augustean coinages of Nemausus and Lugdunum?</i>	880
GĂZDAC C., <i>Patterns of hoarding in the Roman provinces from the Middle and Lower Danube (2nd-3rd c. AD)</i>	885
GENEVÈVE V., SARAH G., DUVAL F., <i>Une production inédite de monnaies coulées de Nîmes datées des années 70/90-110 p.C. dans le Sud-Ouest de la Gaule</i>	891
GROZANOVA L., <i>The development of Pautalia (province of Thracia) during the 2nd-3rd century AD viewed through the city coinage. Some observations</i>	896
IACULLI U., <i>Aspetti della monetazione provinciale: atletismo ed identità civica</i>	900
JELLONEK S., <i>Dynastic propaganda of Caligula-imperial patterns and provincial answers</i>	904
KELEŞ V., OYARÇIN K., YILMAZ M.D., <i>Roman colonisation of Parion in light of coins</i>	908
KOUREMPANAS T., <i>The bronze coinage of the Roman quaestors of Macedonia</i>	914
MIŠKEC A., <i>Roman coin hoards from 3rd century in the territory of present day Slovenia</i>	917
MORA SERRANO B., <i>'Literatura numismática' en el sur de la Península Ibérica: Mitos regionales e historias locales</i>	921
MUNTEANU L., <i>Some considerations of the Roman coin finds in the hinterland of the provinces of Dacia and Moesia Inferior</i>	925
PETER U., <i>Die Münzen ohne kaiserliches Porträt von Philippopolis (Thrakien)</i>	930
PILON F., <i>Les monnayages d'imitation de la seconde moitié du III^e siècle après J.-C. dans les provinces nord-occidentales de l'Empire romain. Importance des découvertes de Châteaubateau (France) pour leur étude</i>	936
ROMANOWSKA A., <i>Roman coin finds from Przeworsk Culture settlements in Lesser Poland (Małopolska)</i>	941
SCHINZEL C., <i>Coin Finds in the Swiss Canton of Solothurn and Roman Hoards</i>	946
TROMMENSCHLAGER L., FETET P., <i>Un atelier de faux monnayage magnétien à Martinville (88): de l'enquête à la résolution</i>	952
TSAGKALIA C., <i>The Iconographical Type of Dionysus Lyceus/Aesymnetes on the Provincial Coinage of Patrae: An Interpretative Approach</i>	958
WATSON G., <i>The system of coin production in Roman Asia Minor: new light on an old problem</i>	963
ZAJĄC B., <i>Circulation of Trajan's silver Greek imperial coins struck in Lycia and Cappadocia in the light of coin finds in Europe</i>	967

MEDIEVAL NUMISMATICS

Byzantine

BALDI E., <i>Coins of the mint of Salona from the archaeological contexts of Classe. New evidence and interpretation</i>	973
CASTRIZIO D., <i>Le emissioni in bronzo «bizantine» della zecca di Alessandria. Una revisione cronologica</i>	978
DARLEY R., <i>All that glitters...: the Byzantine gold solidus, c. 300-1092</i>	982
GKANTZIOS DRÁPELOVÁ P., <i>Eastern mints in the early Byzantine period (6th century AD)</i>	986
GURULEVA V., <i>Syracusan folles of Leo V in Chersonesos</i>	990
HAHN W., <i>The sequence of issues struck by the mint of Rome from emperor Leo III to pope Hadrian I</i>	994
LEONARD R.D. Jr., <i>Andronicus Comnenus's Invasion Money of 1181-1182</i>	998
MARANI F., <i>Il cosiddetto "Tesoretto di Sessa Aurunca" e la tesaurizzazione in Italia centrale alla metà del VI secolo</i>	1003
ŠEPAROVIĆ T., <i>Notes on Byzantine Coins from the 7th to 9th century found in Croatia</i>	1008
SQUIRES D.A., <i>Unpublished Transitional Hyperpyra of John III Vatatzes</i>	1013
TOTEV B., DOBREV D., MIHAYLOV S., LAVYSH K., <i>The Hoards of Early Byzantine Coins from the Monastery in Slavnata Kanara (preliminary report)</i>	1017
ÜNAL C., <i>Kavakli hoard from Aydin Archaeology Museum. "A group of gold coins from the reign of Constans II"</i>	1021
ÜNAL C., ERSOY A., <i>A lead seal of Alexius I Comnenus from Agora sector/ Excavations Smyrna/Izmir</i>	1026

Medieval Europe

ACHACHE ST., <i>Le Trésor du «Loiret» : typologie des monnaies de l'Orléanais et liaisons de coins entre ateliers monétaires</i>	1032
AKOPYAN A.V., <i>Dvin in the eleventh and twelfth centuries. City history in the light of new numismatic materials</i>	1036
ANDREWS M., <i>'Noble, fair and fine': Single finds of English gold coin from later medieval England and Wales</i>	1040
ARICÒ R., <i>Le kharrûbe dei due Ruggeri: un tentativo di classificazione</i>	1046
BALDASSARRI M., <i>Miliarenses and silver grossi in the Western Mediterranean: new documents and perspectives</i>	1052
BALDASSARRI M., <i>The overstriking on Italian Medieval coins: a preliminary "taxonomy" and some motivations</i>	1058
BECKER J.-E., <i>Die Rekonstruktion des Brakteatenfundes bei Leipzig (1831). Ein Beitrag zur Münzgeschichte des Osterlandes am Übergang vom 13. zum 14. Jahrhundert</i>	1063
BOCHNAK A., WOŁOSZYN M., <i>The Sphinx of Slav Sigillography - Type Dorogichin Seals in Their East European Context</i>	1069
BOMPAIRE M., <i>Piéforts médiévaux. Réflexions sur l'origine et les fonctions d'un objet monétaire mal connu</i>	1074
BONANNO M., <i>Le monete "locali" di Messina del 1474</i>	1078
CANTO GARCÍA A., MARTÍN ESCUDERO F., DOMÉNECH BELDA C., <i>Monedas fatimíes en el hallazgo de dinares de la calle Santa Elena (Valencia, España)</i>	1083
CLUA MERCADAL M., <i>Alternativas monetarias adoptadas en Catalunya durante la Baja Edad Media</i>	1089
DAY W.R., <i>«Secundum ducatos venetos»: the Roman Senatorial Gold Ducat, 1368-1439</i>	1093
DE BENETTI M., <i>The Alberese hoard. Seventy-six gold florins of the second half of 13th century</i>	1098
DERGACIOVA L., <i>Newly Discovered Coin Hoard in the Republic of Moldova. North Pontic Factors in the Local Money Circulation</i>	1103
ELFVER F., <i>Export of dies between Denmark and the Slavonic area during the 11th century</i>	1106
EMMERIG H., <i>Der Beitrag der schriftlichen Quellen zur Frage nach der Monetarisierung des frühen Österreichs im 12. Jahrhundert</i>	1109
GARBACZEWSKI W., <i>Die sog. „Krönungs-“ und „Inaugurationsmünzen“ im mittelalterlichen Polen und Böhmen (bis zum Ende des 12. Jahrhunderts)</i>	1114
GROSSMANOVÁ D., <i>Der Schatzfund von Zlechov /Zlechow/ (Tschechische Republik) und dessen Bedeutung für das Münzwesen im 13. Jahrhundert</i>	1119
HÜRLIMANN F., <i>Die mittelalterlichen Fundmünzen aus Ingelheim am Rhein</i>	1124

JONSSON K., <i>The earliest coinage on Gotland and in the Baltic countries</i>	1128
KELLEHER R., <i>The monetisation of Medieval England and Wales: new interpretations from single finds (c.1150 - c.1300)</i>	1133
LOCATELLI S., <i>Aspects of the Monetary Circulation of the Kingdoms of Naples and Sicily in the Sixteenth Century. Two Unpublished Coin Hoards from the Island of Lipari</i>	1138
MÄRCHER M., <i>The monetary development in Bornholm in the 12th-13th centuries</i>	1143
NASSAR M.A.M., <i>Il ritratto fisionomico realistico sulla monetazione medievale italiana</i>	1148
NOVÁK V., <i>Islamic silver in the newly discovered hoard dated back to the 10th century from central Moravia, the Czech Republic</i>	1153
PAGHAVA I., <i>Muslim Tiflis before Georgian Conquest: Numismatic Evidence. Monetary Issues in the Name of al-Mustazhir</i>	1155
PASZKIEWICZ B., <i>Lusatian seignorial coinage of Żary and Przewóz</i>	1159
PIERCY J., <i>Hammered Lives: studies from a New Database of the Late Anglo-Saxon Moneyers</i>	1163
POLANSKÝ L., <i>Marginal legends and images on Bohemian deniers of the 10th century</i>	1168
RAEMY TOURNELLE C., <i>Aperçu de la circulation monétaire en Pays de Vaud sous le prisme de cinq églises</i>	1172
ROSSINI F., <i>Renaissance portrait coins: the innovation, its forerunners and the diffusion in Italy and Europe</i>	1177
SARCINELLI G., <i>Rinvenimenti di moneta in Puglia tra Bisanzio e i Normanni. Note a margine dell'edizione aggiornata de "La monetazione nell'Italia normanna" di Lucia Travaini</i>	1182
SCREEN, E., <i>Anglo-Saxon coin imports to Norway: the die-linking evidence</i>	1189
SPUFFORD P., <i>Some Economic Effects of Debasement</i>	1193
VALCI M., <i>A hoard of denari anconetani and ravennati from the Forum of Nerva, Rome</i>	1198

MEDALS

DOBROVOLSKAYA L., <i>Russian-French Friendly Relations in the late 19th - early 20th cent. in Medals, Badges and Jettons (on the basis of the Hermitage collection)</i>	1205
GIMENO J., <i>Vt quiescat Atlas: un estado de la cuestión</i>	1209
GÜNTHER S., <i>Authority or Just Reference? A Case Study on a Russian Medal of Empress Elizabeth (1741-1762)</i>	1214
HAIDENTHALLER Y., <i>Producing the Pole Star: Early modern Swedish medals</i>	1217
JÄRVINEN O., <i>Medallic art of Emil Wikström. A source study</i>	1221
JIMÉNEZ MARTÍNEZ F., <i>El botón contemporáneo: fantasía e imitación del antiguo sistema monetario romano</i>	1225
SANDERS G., <i>The Triumph Medals of the Dutch Republic. An instrument of politics and propaganda</i>	1229
SCHAAL K., <i>«Il faut pour le bon renom de l'Art Français que la médaille et la plaquette de 1900 soient des modèles sortant des mains de nos maîtres les plus renommés». Genèse et réalisation des œuvres de Jules-Clément Chaplain et d'Oscar Roty</i>	1233
SIMMONS F., <i>Commissioning the medal</i>	1238
SPECHTE E., <i>A medal for books. The "Description de l'Égypte"</i>	1242
TURRICCHIA A., <i>Five Centuries of Italian Medals. A Preliminary Statistical Overview</i>	1245

MODERN NUMISMATICS

FRANCISCO DE OLMOS J.M., <i>La influencia de la iconografía de la moneda castellana de los Reyes Católicos en sus descendientes (siglos XVI-XVII)</i>	1253
GIANAZZA L., <i>Coin clipping and monetary crisis: the case of the Italian ducatone</i>	1257
JAMBU J., <i>Évaluer la circulation monétaire en «Flandre». L'enquête justifiant la réforme de l'argent espagnol et l'ouverture d'une Monnaie française</i>	1261
JOYAUX F., BLET-LEMARQUAND M., <i>La fin du monnayage annamite sous le règne de Bảo Đại (1925-1945): le cas de la sapèque</i>	1265
KLEEBERG J.M., <i>John J. Ford Jr., Paul Franklin and their Forgeries of Western Gold Bars</i>	1270

MARCOS ALONSO C., OTERO MORÁN P., <i>El último viaje de la fragata Nuestra Señora de las Mercedes. Un tesoro cultural recuperado</i>	1274
PODDI S., <i>I buoni dei prigionieri di guerra</i>	1279
SANTIAGO FERNÁNDEZ J. DE, <i>Acuñaación de moneda en la España de los Austrias. Asientos para la fabricación del vellón de Carlos II</i>	1282
ŚNIEŻKO G., <i>The plague of forged coins - counterfeits of the copper shillings of Polish-Lithuanian Commonwealth in the second half of 17th century</i>	1286
VANHOUDT H., <i>The coinage of Philip V in the Spanish Low Countries (1700-1712)</i>	1289
VOREL P., <i>The activities of the Roman Mint at the end of the pontificate of Urban VIII. The rolling of Papal gold, silver and copper coins during the years 1634-1644</i>	1294
ZILCH R., <i>The numismatic iconography of successor state banknotes in Central and Eastern Europe, 1918-1939</i>	1299

ROUND TABLES

1. ANTIQUITY, GREEK: <i>The new LANDscape of Greek Numismatics. Unifying a discipline through Linked Data.</i> Conveners: MEADOWS A.; DUYRAT F.	1305
MEADOWS A., <i>Introduction</i>	1305
1. DUYRAT F.R., <i>The catalogue of the Greek coin collection of the BnF</i>	1306
2. PETER U., <i>Corpus Nummorum Thracorum – A Research Tool for Thracology and an Example of Digital Numismatic Collaboration</i>	1306
3. VAN ALFEN P., <i>The PELLA Project: coin types of the Argead kings</i>	1307
4. WARTENBERG U., PHANES: <i>A database of early archaic electrum coinage</i>	1307
5. MARKOU E., <i>Kyprios Character Website: http://kyprioscharacter.eie.gr</i>	1307
6. GRANDJEAN C., <i>Monnaies de fouille en ligne</i>	1308
7. REINHARD A., <i>Digital Publication, Recent Developments at the American Numismatic Society</i>	1308
2. ANTIQUITY, ROMAN: <i>Networking Roman Coin Data Repositories.</i> Convener: WIGG WOLF D.	1309
3. MEDIEVAL EUROPE & BYZANTIUM: DIVINA MONETA: <i>coin finds in religious contexts.</i> Conveners: BURSTRÖM N.M.; GULLBEKK S.H.; INGVARSDON G.	1309
BURSTRÖM N.M., <i>Introduction to the Round Table session</i>	1309
BURSTRÖM N.M., <i>Coin finds in religious contexts: introducing the theme</i>	1310
HOULBROOK C., <i>'So Money Really Does Grow On Trees': The British Coin-Tree Custom</i>	1311
KELLEHER R., <i>Pilgrims, Pennies and the Ploughzone: folded coins in Medieval Britain</i>	1311
NAISMITH R., <i>Pecuniary Profanities? Money and Ritual in the Early Middle Ages</i>	1312
PERASSI C., <i>Baptism and Coins in Late Antiquity. Written sources and numismatic finds reconsidered</i>	1312
AUDY F., <i>A link to the past? The ritual use of Roman coins in Viking Age graves</i>	1313
HORSNÆS H., <i>Sacred or Secular? The roles of Landscape, Tradition and Social Context for the function of Roman coins in a non-Roman environment</i>	1313
KEMMERS F., <i>Worthless? The practice of offering counterfeit coinage in Roman religious contexts</i>	1314
EHRNSTEN F., <i>Cheap Salvation? Post-reformation offerings in Finnish churches</i>	1314
GULLBEKK S.H., <i>Medieval Scandinavian Women in Search of Salvation</i>	1315
WIGG-WOLF D., <i>Final Comments</i>	1315
4. GENERAL: <i>Numismatics in the 21st century: Jobs, careers, professions for the young generation of coin enthusiasts.</i> Conveners: ARNOLD BIUCCHI C.; KIRSCH A.	1317
5. ICOMON: <i>Museum Numismatics & Collections Care: Best practice updates from the field.</i> Conveners: NOMIKOU E., SCHOLLAARDT C.	1317
NOMIKOU E., <i>ICOMON, Purposes and Goals</i>	1317
INDEX AUTHORS AND ROUND TABLES PARTICIPANTS	1321

MICHAEL NICK

Celtic Coin Finds in Switzerland: The recent volume of the Swiss Inventory of Coin Finds

A large scale research project *Celtic Coin Finds from Switzerland* has recently been published¹. The assessment shows numerous aspects of the diverse coin use in regional, chronological and functional respect. Some of the results are presented here.

1. The earliest coin use

The first phase of coin circulation – for which the term «gold horizon» is used here – is characterised above all by gold coins, even if the first silver coins (obols) already appear in graves in this period. The gold horizon can be divided into two periods. The first starts around the middle of the 3rd century BC and is initially restricted to North and West Switzerland. There is no evidence for a local coin production in this early period. In the ensuing phase, which can be dated to roughly the first half of the 2nd century BC, the use of gold coins was more extensive, and now included Northeast and Central Switzerland. For the first time coins were struck on the territory of present-day Switzerland (Fig. 1). During the entire gold horizon period (c. 250–150 BC) there is no evidence of a proper monetary economy. Most coins in known contexts are restricted to hoards, to deposits in waters and moors, and to burials, so it is likely that they were primarily used in a social or ritual sphere.

2. Money for economic purposes

In the early phase of the late Latène period (LT D1, c. 150–80 BC), for the first time we find settlements in Switzerland in which coins circulated. Most of them are located in Northwest and West Switzerland, as well as on the Central Plateau, only few in North and Central Switzerland. Gold coins are scarce among settlement findings; these are almost exclusively potin coins (Figg. 2-3), together with silver quinarii (Fig. 4) and obols (Fig. 5).

Although there were numerous smaller, rural settlements, evidence of a significant coin circulation concentrates in the large settlements. These were centres of long-distance trade and central markets for the surrounding areas.

In contrast to the situation in the western part of the country, coins are rarely found in East Switzerland. In Valais, too, there is no significant coin circulation during this early phase. In Ticino, Celtic coins, on the

whole padanian drachms, are mostly found in hoards (Fig. 6).

3. Silver for military payment?

Coin circulation of the final late Latène period (LT D2, c. 80–15 BC) in many regions is characterised by what is known as the «silver horizon», a phenomenon whose significance has only been recognised in recent years as a result of an increase in the number of finds and findspots. The sites evidencing the silver horizon show a change in the currency in use at the transition from the phase LT D1b to LT D2a (about 80 BC); from potin coinage, which account for about 80% of coins from settlements in the earlier late Latène period, to silver quinarii (Figg. 7-9), which make up the majority of finds in the final late Latène period at the relevant sites. The material from three late Latène settlements in particular allow to divide the silver horizon into four chronological phases: Altenburg (Germany), Rheinau (canton of Zurich) and Yverdon-les-Bains, Sermuz (canton of Vaud). The phases can be distinguished by the use of different types of silver quinarii that characterise them.

The «change in currency» to silver coinage in large areas of Switzerland is in coincidence with a significant influence from the Bavarian region. This process is probably accompanied by an increase in the population that is manifested in the foundation of new settlements, for example Rheinau ZH. Against the background of the archaeological evidence and the written sources, it seems plausible to see the reason for this increase in the production of silver coinage in military activity – whether in the form of military alliances, payment of troops or in tribute – although this does not mean that the coins did not also play a role in the civilian circulation.

4. Regional diversity

However, coin circulation in the final late Latène period (LT D2, c. 80–15 BC) in Switzerland is not defined exclusively by the silver horizon. The appearance of new potin types indicates that there was still a need for small denominations of this kind in the western areas of the country. In East and Southeast Switzerland, though, coin circulation was still rudimentarily developed or non-existent. The canton of Valais shows a distinctive feature. Here mainly drachms of the Veragri were in use (Fig. 10). As they primarily stem from ritual contexts the question arises whether there was a coin circulation for economic purposes at all.

¹ Nick 2015.

5. Iron Age coins after the Roman conquest

And finally the question arises whether and for how long Iron Age coins were still circulating after the Roman conquest. The evidence indicates that during the Augustan period a certain amount of Celtic coinage was still in circulation, although these coins gradually disappeared towards the middle of the 1st century. While the silver and potin coins are generally of types that were found at pre-Roman sites in Switzerland, most of the «gold» denominations (Fig. 11), as well as the small Gallic struck bronzes (Fig. 12) found in Roman context only arrived in Switzerland with the Romans. To sum up, Celtic coins were no longer important as currency from the late Augustan period at the latest.

Bibliography

NICK M. 2015, *Die keltischen Münzen der Schweiz: Katalog und Auswertung* (Inventar der Fundmünzen der Schweiz 12), Bern.

Photo credit:

1, 6, 8, 10: Swiss Inventory of Coin Finds
 2: Archäologische Staatssammlung München
 3–5: Archäologische Bodenforschung des Kantons Basel-Stadt
 7: Münzkabinett Winterthur
 9: Kantonsarchäologie Zürich
 11–12: Kantonsarchäologie Aargau

PLATE



Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6



Fig. 7



Fig. 8



Fig. 9



Fig. 10



Fig. 11



Fig. 12



Fig. 1 Quarter-staters of Horgen-Unterentfelden type were the first coins minted on the territory of present-day Switzerland.

Fig. 2 Typical Swiss Potin coin of Zurich type from the pass of the Septimer (canton of Grisons).

Figs. 3-5 Coins from the late La Tène settlement of Basle-Gasfabrik (canton of Basle-Stadt): potin coin of Sequani type (3), quinarius of Kaletedou type (4), obol of Basle-Gasfabrik type (5).

Fig. 6 Padanian Drachm from Colombier, Le Bied (canton of Neuchâtel).

Figs. 7-9 Quinarii from the late La Tène settlement of Rheinau (canton of Zurich): bushel type (7), Ninno type (8), Altenburg-Rheinau type (9).

Fig. 10 Drachm of the Veragri from the pre-Roman sanctuary of Martigny/Octodurus (canton of Valais).

Fig. 11 Aes-stater of Siaugues-Saint-Romain type from the Roman Vicus at Baden/Aquae Helveticae (canton of Aargau).

Fig. 12 Bronze coin of the Mediomatrici from the Roman Vicus at Windisch/Vindonissa (canton of Aargau).