

INTERNATIONAL NUMISMATIC COMMISSION

**SURVEY OF
NUMISMATIC RESEARCH
2008-2013**

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International Association of Professional Numismatists
Special Publication 16

Taormina, 2015



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PREFACE

The International Association of Professional Numismatists (IAPN) is once again pleased to sponsor the publication of the *Survey of Numismatic Research*, and to support the INC's longstanding efforts to encourage scholarship and foster cooperation among numismatists.

Since the Renaissance, numismatists have taken great care in the preservation, study, and display of coins. The fascination of coins as historical and artistic objects has captivated generations from all walks of life: academia and commerce; royal and common; men, women, and children.

In recent years, as coins have come to be more widely perceived as national cultural patrimony, and as more nations have claimed them as part of their heritage, this age-old pursuit has been changing. We would like to take this opportunity to say a few words about these developments and about the role of the trade.

Nations have an indisputable right and duty to protect their heritage, and the IAPN fully supports that. But the increasingly widespread practice of declaring coins as national patrimony, precluding their export and seeking their repatriation, threatens to undermine the traditional international trade and the ability of individuals and institutions to assemble systematic collections of the sort that have long provided the basis for numismatic study. Even common and well-known coins are now classified as "national treasures". Many such coins have been traded unencumbered for centuries, although they were almost never published in auction catalogues or price lists so pedigrees can rarely be established. The new restrictions are disrupting the legitimate trade, sometimes resulting in the confiscation of items without evidence that they were illegally excavated or illegally exported. Disagreement over the propriety of these restrictions has polarized the positions and exacerbated the relationships amongst scholars, dealers and collectors. The IAPN supports the legitimate international trade as a fundamental tradition of numismatics, while striving to create an atmosphere of collaboration that will benefit all involved.

The IAPN is a non-profit organization of the leading international numismatic firms founded in 1951. It was formed in the aftermath of World War II to help reestablish relationships amongst professional numismatists that had been badly frayed during years of conflict. The objectives of the IAPN are the development of a healthy and prosperous numismatic trade conducted according to the highest standards of business ethics and commercial practice, the encouragement of scientific research and the propagation of numismatics, and the creation of lasting and friendly relations amongst professional numismatists around the world.

The IAPN has 105 member firms in twenty-three (23) countries. Each of these members has subscribed to the association's code of ethics, which stipulates that members agree "*To guarantee that good title accompanies all items sold, and never knowingly deal in any numismatic items stolen from private or public collections or reasonably suspected to be the direct products of illicit excavations in contravention of national cultural heritage legislation*". Members who have been found in contravention of this requirement have been given the choice of either resigning voluntarily or being suspended and the IAPN takes this obligation seriously.

Recently introduced trade restraints and acquisition guidelines not only result in questionable impediments to private commerce, but also have a direct impact on museums, limiting their acquisition of coins. The IAPN recognizes the crucial role that museums play as repositories of our numismatic heritage, and as centers of research and education, and it is our view that museums should be able to continue to build their numismatic collections with appropriate acquisitions. The great museum collections of today were the great private collections of past eras.

IAPN members fully recognize the value of recording the context of finds. IAPN members have traditionally worked with scholars and museum curators to record the content of hoards. The success of the system in the United Kingdom, along with the Portable Antiquities Scheme in England and Wales,

could serve as models for other countries where much valuable information is being lost unnecessarily through the lack of appropriate incentives to finders.

No fewer than ten IAPN member firms act as publishers of numismatic books as an adjunct to their primary business as numismatic auction houses. Without their continued support, much numismatic scholarship would never be published. The IAPN directly supports numismatic research through its publications program, annual book prize, and funding of the *Survey of Numismatic Research* since 1979. The IAPN also seeks to suppress the trade in forgeries and reports stolen coins to its members so they can be recovered. Its forgery research has worked best when done in close collaboration with institutional numismatics. It is our hope that the cooperation shown in this area can be extended to the area of cultural patrimony and that all parties will work together to create acceptable standards advancing the study and appreciation of historical coins and the preservation of archaeological context.

More about the IAPN may be found on the internet at <http://www.iapn-coins.org>.

Arne Kirsch
President

Eric McFadden
Immediate Past President

INTRODUZIONE GENERALE /GENERAL INTRODUCTION

Maria Caccamo Caltabiano and Carmen Arnold-Biucchi

Confermando il *trend* evidenziato negli anni precedenti, anche il nuovo volume del *Survey* registra un considerevole incremento della produzione scientifica nell'ambito degli studi numismatici. Cresce, in particolare, il contributo alla Numismatica dei colleghi dei paesi dell'Europa dell'est e della Turchia, ma anche del cosiddetto Nuovo Mondo. Maggiore impegno, rispetto al passato, è stato dedicato alla pubblicazione dei materiali, di Cataloghi di collezioni pubbliche e private, di Mostre. Ma maggiore considerazione hanno anche avuto le monete citate nelle fonti letterarie ed epigrafiche, e - per l'età medievale – quelle registrate nei documenti di archivio. L'interesse si è rivolto alla storia del collezionismo, ma contemporaneamente anche alla storia della numismatica e dei numismatici. Numerosi sono stati i lavori di sintesi, i contributi su aspetti peculiari di una singola monetazione, le segnalazioni di nuovi tipi e di varianti provenienti da scavi o comparsi in cataloghi di vendita. Si sono intensificati gli esami della composizione metallica delle monete, anche ai fini di una loro possibile determinazione cronologica.

Mentre si registra la carenza di studi fondati sulla raccolta e la ricostruzione della sequenza dei conii, prevale in assoluto – nella ricerca e nei convegni - l'attenzione alla circolazione monetale, con esame di tesoretti e di rinvenimenti nel contesto archeologico, e il contemporaneo interesse per la storia economica e politica delle aree esaminate. In diversi casi, tuttavia, la rapida pubblicazione dei rinvenimenti si esprime in articoli di breve respiro (anche una o due pagine) che frammentano le conoscenze e non sempre concorrono alla storicizzazione dei documenti pubblicati.

In generale, si nota come sia stata avvertita la necessità di inserire i tradizionali studi tecnici all'interno di cornici storiche sviluppate nel campo delle scienze politiche, sociologiche ed economiche. In alcuni casi si è anche tentato di inserire i rinvenimenti del singolo sito all'interno di aree economiche, in cui è possibile osservare

Following the trend of previous years, this new volume of the *Survey* attests to a considerable increase in the output of scholarly publications in the field of numismatics. In particular we can see a welcome growth of contributions from our colleagues in Eastern Europe, in Turkey and also in the New World. We can observe a more focused effort compared to the past, in publishing and cataloguing coins from private and public collections, as well as exhibition catalogues. There is a renewed interest in coins mentioned in the literary and epigraphical sources, and – for the medieval period – for those registered in archives and official documents. As in other fields, the history of collecting has attracted attention, jointly with the history of numismatics and numismatists. There are many works of synthesis, contributions on specific aspects of a single coinage or mint, notices of new types or specimens that came to light in excavations or appeared on the market and in auction catalogues. Metal analyses using different methods are becoming the norm not only to determine the composition of coins but also to help establishing their chronology.

While on one hand there seems to be a dearth of comprehensive mint studies based on die comparison, on the other, coin circulation has become one of the most frequent topics of numismatic conferences and research, documenting new hoards and excavation finds, and generating an interest in the economic and political history of the regions under examination. These quick publications of new discoveries, however, often result in very short analyses of one or two pages that can fragment our knowledge and hinder the historical interpretation of the various contexts of the documents under consideration.

In general we can note a new shift to put traditional technical studies into the broader historical framework of political, sociological and economic disciplines. Some studies tried to place coin finds from a single site within economic regions in order to determine specific

specifici modelli di circolazione della moneta. Particolare considerazione è stata riservata alla distribuzione geografica e temporale dei rinvenimenti monetali, con interessanti ricadute sul piano storico, che hanno evidenziato, ad esempio, l'importanza delle monetazioni "non-romane" per l'economia monetaria di Roma nell'Asia Minore tardo-ellenistica.

Matura la curiosità e lo spirito d'osservazione per tutti gli elementi che connotano la moneta, dal metallo alla tecnica per coniarla, ai tipi, agli epitetti regali o imperiali, ai segni di controllo e all'indicazione delle date. Migliora in generale, sul piano metodologico, l'apertura ad altre discipline. Si fa strada la *Cognitive Numismatics* che, con metodo multidisciplinare, integra le diverse fonti abbandonando la *Narrative Numismatics* fatta di ricostruzioni tradizionali.

Si nota l'emergere di gruppi di giovani storici dell'economia interessati ad esaminare la funzione economica e sociale della moneta. Ampio spazio si comincia a dare al dato monetario nella ricostruzione dei processi storico-economici, soprattutto per l'età medievale, dimostrando la sostanziale unitarietà della triade formata dal contesto economico, dalla politica monetaria e dalla produzione della moneta. L'approfondimento delle analisi concorre a recuperare realtà finora poco attenzionate come - ad esempio - il ruolo dei santuari nell'economia monetaria inglese di età medievale. Oppure, per le età antiche, il ruolo del bronzo dalle fasi premonetali ad età più tarda. In particolare, la nostra attenzione è stata attratta dalla problematica testimonianza epigrafica di *stateres chalkou* (stateri di bronzo), che se da un lato possono testimoniare l'evoluzione economica ed istituzionale che si accompagna alla diffusione della moneta, dall'altro ci appaiono frutto di processi svalutativi ed inflazionistici che ben conosciamo nell'età moderna. Processi che rivelano situazioni debitorie e di impoverimento conseguenti all'affermarsi di domini imperialistici e a stati di guerra.

Da segnalare, in generale, ci sembra anche l'importanza dei lavori di équipes, comunicati in contesti o Atti congressuali, o realizzati quali parte di opere più ampie. Ne sono pregevole esempio i due volumi su *Le zecche Italiane fino all'Unità* (Roma, 2011) coordinati ed editi da Lucia Travaini.

Oltre a quello economico il secondo dominio particolarmente riconsiderato è stato quello dell'iconografia monetale. Nell'ambito della monetazione greca i tipi monetali sono stati let-

pattern of coin circulation. Particular attention was given to the geographical and temporal distribution of coin finds that resulted in interesting repercussion at the historical level, for instance the importance of "non-Roman" coins for the monetary economy of Rome in Hellenistic Asia Minor.

There is a growing interest and keener spirit of observation of all the elements that define coins, from the metal to the technique of striking, the types, the royal and imperial epithets, the control marks and the indication of dates. A broader awareness of other disciplines is leading towards better methodologies. The introduction of *Cognitive Numismatics* based on interdisciplinary approaches combines the different sources, replacing the traditional reconstructions of *Narrative Numismatics*.

Groups of young economic historians interested in the economic and social function of money are emerging. Especially in the field of medieval numismatics, more room is given to the monetary factor in the reconstruction of economic developments, which shows the fundamental equivalence of the triad established by the economic context, the monetary policy and the production of money. The in-depth examination of this kind of analyses brings out realities previously unnoticed such as, for instance, the role of sanctuaries in the English monetary economy of the middle ages, or for antiquity, the importance of bronze from the pre-monetary phases of coinage until the later periods. Specifically, attention is drawn to the problematic epigraphic evidence for *stateres chalkou* (bronze staters) that on one hand can attest to economic development following the spread of coinage, but on the other seems to be the result of devaluations and inflationist methods well-known in modern times. These practices reveal states of debt and impoverishment caused by the establishment of imperialistic dominions and wars.

Worth noting in general is the importance of team publications resulting from meetings and symposia or achieved within broader work projects. Exemplary of what can be accomplished in this way for instance are the two volumes *Le zecche Italiane fino all'Unità* (Rome, 2011) coordinated and edited by Lucia Travaini.

Besides the focus on coin circulation and the economy, there has been a significant resurgence of interest for monetary iconography. In Greek

ti soprattutto quali simboli dell'identità statale, alla luce delle pratiche cultuali e dei miti che compongono il mondo del sacro.

L'iconografia, relativamente poco indagata fino a qualche decennio fa, è divenuta oggetto di numerosi articoli che esaminano il rapporto fra potere centrale e utenti della moneta. All'iconografia molti autori del presente *Survey* hanno dedicato paragrafi specifici, coerenti con l'assunto che l'unico elemento che distingue un quantitativo di metallo a peso dalla moneta è esclusivamente l'immagine che la connota, segno visibile dell'autorità emittente e garante del suo potere d'acquisto, ma anche efficace veicolo di comunicazione. L'interesse per l'esame e la storicizzazione delle iconografie monetali è cresciuto soprattutto in relazione all'ambito orientale (monetazione seleucide, persiana, tolemaica correlate a regni e personaggi storici che consentono di esaltare il legame intercorrente fra scelte iconografiche e processi di autolegitimazione e autorappresentazione). Ma anche in relazione alla monetazione romano-imperiale l'iconografia è stata esaminata notando come l'uso delle tradizioni iconografiche sia stato applicato ad intenzioni politiche e personali, con messaggi specifici rivolti spesso sia alle regioni che alle legioni. Continua l'interesse per i tipi architettonici, sicuramente fra i soggetti più antichi ad essere esaminati nell'ambito degli studi iconografici. Si insiste non soltanto sul simbolismo di legittimazione ma anche sul rapporto fra moneta e identità civica o statuale, con la distinzione di quanto si registra nelle zone centrali del potere - sia regale che imperiale - rispetto alle periferie. Si evidenzia, in particolare, l'attenzione non soltanto al tipo monetario singolo ma al programma iconografico adottato dalla singola città o dall'autorità al potere; si delinea anche la valorizzazione del significato politico (e non solo economico) che riveste l'uso di iconografie di altre città, di stati o di regni stranieri. Ad esempio, diversi lavori si sono interessati alla fusione "ellenistica" tra gli elementi tipologici greci e quelli orientali, testimoniata dalle monetazioni puniche. Un fenomeno particolarmente evidente al tempo della seconda guerra punica nella monetazione dei Barcidi e in quella dell'Italia e della Sicilia sotto il controllo cartaginese, in evidente contrapposizione con l'esperienza italo-romana. Anche l'ampia ripresa e l'imitazione dei tipi monetali tolemaici in diverse città del Mediterraneo, ha orientato un cono di luce sulla politica espansionistica dei Tolemei e

numismatics, coin types have generally been interpreted as symbols of civic identity in the light of cult practices and of the myths that form the realm of the sacred.

Iconography, which had not received particular attention in numismatics until some decades ago, has now become the topic of numerous articles that examine the relation between the central authority and those who used coins. Many authors cited in the present *Survey* offer detailed studies, derived from the premise that what distinguishes a piece of metal from a coin is solely the image that characterizes it as visible mark of the issuing authority guaranteeing its legal tender, and is also a powerful means of communication. The interest for the examination and historization of coin iconography grew in particular for the Eastern coinages, those of the Seleucids, the Persians and the Ptolemies that relate to the reigns of historical rulers, and best reveal the link between the choice of coin types and self-legitimation and self-representation. Studies of Roman imperial coin types as well have shown how the use of certain iconographic traditions served personal political purposes, with specific messages to the regions and the legions. Architectural types have fascinated scholars since the beginnings of numismatics and continue to attract interest. Other research focuses not only on the symbolism of legitimation but also on the relation between coinage and civic and state identity, differentiating the centers of power – regal or imperial – from peripheral areas. We note in particular not only interest in the individual single coin type but in the whole iconographic program adopted by a specific city or ruler, and there is a deeper understanding of the political reasons (besides the economic ones) for using coin types from other cities or states and from foreign rulers. Several works, for instance, explored the "Hellenistic" fusion of Greek and Oriental iconographies in Punic coinages. This phenomenon manifests itself particularly during the second Punic War in the coinage of the Barcids and in those of Italy and of Sicily under Carthaginian authority, in strong contrast with the Italo-Roman developments. The wide-ranging use and imitation of Ptolemaic coin types in several cities around the Mediterranean shed light on

sull'ampiezza della diffusione della loro moneta anche in assenza di specifici rinvenimenti *in loco*.

Inoltre registriamo con piacere come anche altri colleghi comincino a parlare di “linguaggio monetale” e che considerino la moneta una fonte storica di primo ordine, solo che la si restituisca al suo contesto economico e politico, e se ne interpreti il codice di comunicazione iconica. Tutto ciò senza sottovalutare l'importante contributo che, sia in campo politico che in quello della storia dell'arte e della comunicazione per immagini, viene assicurato dai numerosi studi di medagliistica, che documentano risvolti storici in ambiti non immaginabili, quale quello della ricostruzione della storia della medicina peruviana attraverso le medaglie.

Non è mancata infine, principalmente nel Nuovo Mondo, l'attenzione ad elementi che possono definirsi *exonumia: trade tokens, merchant tokens*, cioè *tokens* di cooperative, aziende, municipi, differenti servizi pubblici e privati. Anche se certamente questi oggetti interessano di più l'ambito collezionistico che quello delle istituzioni accademiche tradizionali, essi pongono nel mondo contemporaneo importanti problemi di tipo economico che investono sia la cosiddetta “moneta convenzionale”, sia l'interrogativo su quale sia o debba essere oggi l'unità di misura della ricchezza. Se l'odierna economia monetaria ha consentito che il denaro potesse “generare” denaro, a prescindere sia dal lavoro che dall'esistenza di beni materiali, si riaffaccia alla nostra attenzione il grosso problema dell'unità di misura del valore, intesa non in senso astratto ma con riferimento a quanto viene prodotto localmente. Da qui l'esistenza dei *bread and milk tokens* australiani e forse, non a caso, anche l'interesse che in Messico, Centro America e Sud America si registra per lo studio degli oggetti premonetali.

La produzione scientifica censita nel presente Survey dimostra le innumerevoli potenzialità conoscitive - della storia e della cultura dei popoli - insite nella moneta e negli oggetti paramonetali. Tutti i numismatici ne sono convinti e lo stanno sperimentando in molteplici campi. Tuttavia, l'impegnativo compito che ancora ci attende è quello di comunicare questo ruolo ai colleghi di altri settori scientifici che ancora considerano la numismatica disciplina sussidiaria e di nicchia. Il nostro obiettivo deve essere quello di allargarne la conoscenza alle nuove generazioni e al grande

the expansionistic policy of the Ptolemies and on the extensive circulation of their currency despite the absence of Ptolemaic coin finds in these regions.

In addition we note with a certain satisfaction how other colleagues are beginning to use the term “monetary language” and to consider coins as an indispensable primary historical source when put into their economic and political context and interpreted with the appropriate iconological code. This of course without underestimating the importance of the numerous contributions in the field of medals that pertain to art history and the transmission of images: such studies revealed unexpected historical implications like the reconstruction of the history of medicine in Peru through medals.

Finally, there has been no lack of interest, especially in New World numismatics, in what can be defined as *exonumia: trade tokens, merchant tokens*, i.e. tokens of cooperatives, public service companies, city halls, and public and private companies. Though on one hand such objects might be more relevant for the history of collecting, in the modern world they raise important economic issues pertaining both to the conventional aspects of money and coins, as to the question of what the measure of *wealth* in the modern world is or ought to be. If today's monetized economy allows money to “generate” money, using both labor and material goods, the old problem of what the measure of *value* is or ought to be, recaptures our attention, not in an abstract sense but in concrete relation to local products. Hence the existence of bread and milk tokens on Australia, and perhaps not coincidentally an interest in the study of pre-monetary objects in Mexico, Central and South America.

The scholarly numismatic output reviewed in the present volume of the *Survey* attests to the breath of innumerable possibilities in which the study of coins and coin-like objects can contribute to our knowledge of the history and cultures of the world. Numismatists have always been aware of the value of their investigations and methodology. The challenging task in front of us, however, remains our ability to convey the results and discoveries of numismatic research to our colleagues in related fields. Some still consider numismatics a subsidiary, fringe discipline. Our aim must be to disseminate

pubblico. Alla sua comunicazione contribuiscono oggi in misura notevole le crescenti presenze in rete delle Collezioni di importanti istituzioni Museali, sia pubbliche che private, che offrono ricchezza di documentazione ed immagini di alta qualità. Il fine ultimo sarà quello di porre in connessione i dati numismatici con documenti di natura diversa, per facilitarne il confronto e consentirne lo studio globale. Il futuro della Numismatica passa oggi dall'applicazione di metodi conoscitivi a carattere multidisciplinare, ma anche dall'utilizzo dei più aggiornati strumenti tecnologici, esso ci appare quindi soprattutto in mano ai più giovani. L'accresciuta pubblicazione di dissertazioni dottorali nel nostro campo di ricerca ci consente di bene sperare anche sulla loro adeguata preparazione scientifica.

the knowledge of coins both to the next generation of scholars and to the general public. Nowadays information communication is made increasingly easier by the number of public and private collections available online with full documentation and high quality images. The ultimate purpose is to be able to link all the data together, facilitate comparisons of different types of documents and allow global studies. The future of numismatics relies on the application of multidisciplinary approaches and on the advances of technological communication in which the next generation will be well versed. The increasing number of doctoral dissertation in our field is the best omen for the soundness of the scientific training.

* * *

Gli Editori Generali desiderano esprimere la loro gratitudine a tutti i Coeditori e agli Autori per aver reso possibile la pubblicazione del presente volume, grazie al loro faticoso lavoro e alla loro puntualità. Ringraziamo anche la IAPN per il suo costante sostegno al *Survey of Numismatic Research* e gli editori di *Arbor Sapientiae*.

The General Editors wish to express their gratitude to the all the Sub-Editors and Contributors for making the publication of the present volume possible by their hard work and punctuality. We also thank the IAPN for its continuous support of the *Survey of Numismatic Research* and the publishers of *Arbor Sapientiae*."

ISLAMIC SECTION: THE MEDITERRANEAN, WESTERN EURASIA, CENTRAL ASIA, AND LATER SOUTH ASIA

*Stefan Heidemann, Alberto Canto and Vladimir Nastich
in collaboration with Simon Gundelfinger*

1 - Introduction, Mapping the Field Stefan Heidemann¹

The emphasis in the past six-year period lay on the mapping of the numismatic material in various forms as sylloges, as collection catalogues, and as corpora. Few in-depth historical studies were undertaken translating numismatic data into historical information. Increasingly the archaeologically retrieved coins from the eastern Mediterranean find their way in publications, therefore the bibliography established an own section (section 16) for excavated coins. The research in the Russian speaking world has thrived from archaeological excavations and coin hoards and through critical regional studies, with an emphasis on the Caucasian region and the Golden Horde. In terms of monographs and articles the activity the past period might have reached a new height. An attempt at a complete bibliography of the period between 2008 and 2013 will be available at (<http://www.aai.uni-hamburg.de/voror/Personal/NumismaticBibliography.html>).

As scholarship increases, so does the interest in its history and its pioneers too, emphasizing the growing interest in Islamic numismatics since the 17th century. MILLER (32) studied the attempts to explore Islamic coins by the French polymath Pereisc in the 17th century, a timid but surprising attempt which never saw fruition in publication. Undoubtedly Jacob Georg Kehr stands at the beginning of a methodically driven study of Islamic numismatics, with his seminal publication of a hoard found at Stegen/Stegna close to Danzg /Gdansk 1724. ILISCH (22) locates the publication and beginnings of Islamic numismatics within the learned milieu of Prussia; while HEIDEMANN (20) studies the shift of Oriental numismatics from being embedded in the historical studies of the theology of enlightenment to its inclusion in Semitic philology in the middle of the 19th century. ALTERI (3) on Assemani, GARBOLDI (14) on the cabinet in Milan, D'OTTONE (39,41, 42) on Stanzani in Rome and BAUDEN (56) on the cabinet in Padova bring light to the richness of eighteenth and nineteenth century scholarship and collecting in Italy. For the Russian speaking world especially, AKOPYAN (1) explores the studies of the towering scholar Pakhomov in the 20th century. For Spain MAIER (27) explores the documents of the Real Academia de la Historia with numerous references to Islamic numismatics in Spain of the 18th century, and MARTÍN ESCUDERO (2832) looks into its beginnings.

The ongoing task of mapping Islamic numismatics remains vast and the literature extremely widespread. In the past half-decade ALBUM's (2) *Checklist*, originally intended as a learned dealer's marketing tool, has proven to be an extremely useful 'handdrawn' chart for historians. It combines numismatic data of rulership with the coin types that provide the data, often presenting invaluable first-hand research - but without any illustrations. In its third edition with 326 pages the project seems to have overreached its original goal of being just an unillustrated 'checklist'. Its simple format is in parts too detailed, and the format does no longer allow for the abundance of valuable information. A bibliographic summary and directory of numismatic literature has not been attempted since ZAMBAUR's *Münzprägung* (mainly printed in 1943, issued in 1968) and MAYER's annotated bibliography (1954). The Turkish collector DILER (11) bravely undertook this enormous venture with the unattainable goal of working in ZAMBAUR's line, listing all mints and dates known and providing the bibliographic reference for each mint-date combination. Despite the inevitable and serious shortcomings and flaws, such as disregarding wide arrays of non-Turkish literature, and having not studied the major series of

¹ We are grateful to Melody Lawrence for her diligent language editing.

coins by himself, these three volumes have become an indispensable companion for just entering into the vast research literature on a given topic. Some of the main tools for Islamic numismatics are attempts by knowledgeable dealers and scholarly amateurs to map that larger landscape. This situation shows the vast task still lying ahead for researchers in Islamic numismatics, in order to reach a level of knowledge of the material that exists in other fields of numismatics. These tools can only be used with critical caution, knowledge of their constraints, and with a habitual checking of the reliability of the individual data. The time is ripe to embark on a larger collective well funded project to bring such knowledge together and make it useful for historians in its fullest extent.

Since ILISCH adapted and initiated the sylloge project for Islamic numismatics in 1993 in order to remedy this situation, more syllinges have been published. While a corpus for most areas is still out of reach, catalogues of extensive uncharted collections can cover those fields. The sylloge is a regional approach, collecting the numismatic data in the sequence of mint output based on one or more comprehensive collections, each coin illustrated, to reconstruct the narrative of changing governors and rulers, and monetary systems. In the period under report the University Collection in Tübingen covered the region of Bukhārā, Samarqand, Naysābūr, and Sabzawār (531, 892); the Ashmolean Museum covered the early post-reform coinage, and the early and later Abbasids (214, 215, 216); and the Israel Museum covered Mamlūk Egypt (21, 402, 422). Few attempts to form corpora on specific areas were made. After many years of work, with preliminary versions circulating among the colleagues, BERNARDI (149) compiled a corpus of early Islamic gold coins before the break-up of the Empire into regional autonomous emirates in the tenth century. The research ventures for particular issues into die studies, allowing, for the first time, rough assessments of the volume of gold mintage and its frequency. BERNARDI also included the growing corpus of auction catalogues. For regional corpora most notable are the works of VARDANYAN (238, 242), who compiled the first installment of a corpus on historic Armenia, and started to explore them for their historical information. These sequences of coins from single mints, the sylloge style, serve historians well, making use of the numismatic date. They are much more appropriate for the structure of the Islamic empire than more traditional approaches from European history, such as the projection of a dynastic order on Middle Eastern history. Dynastic approaches were still continued, from the West to the East, the work of MAAMRI (390) on the North-African Idrīsides, BROOME and NOVÁK (441) on the Seljūqs of Rūm. JAFAR's book (513) on the coins of Seljūqs in Baghdād, which is a historical study on a impressive privately owned series of coins.

More question driven corpora are the in depth-studies on fragmented coins in the circulation of al-Andalus in the tenth and eleventh century by FRANCÉS (304), which has much wider implications for the coinages of the Muslim Mediterranean, and TREADWELL's (231, 232) study on coins and dies the die engravers the Islamic culture the tenth century, which contradicts a still widespread belief in the anonymity of the artist in the Islamic culture.

Beside the traditional venues of printed books in mapping Islamic coinages, the importance of online-research has increased, as a way to incorporate the wealth of unpublished material. Often the information online is raw data from auction catalogues (www.coinarchives.com), or databases that are crowdsourced, such as (www.zeno.ru), founded and organized by Vladimir BELYAEV, Moscow. This increasing importance of these resources is reflected in the articles referring to the various online sites. Zeno.ru includes for the region under discussion about 50,000 coins at the end of 2014, rivaling major public collections. Public collections are not that far along in their efforts to digitize. The American Numismatic Society took the lead many years ago already with bringing its entire collection online (www.numismatics.org), increasingly with images. The German KENOM-Project (2012-2015) (Kooperative Erschließung und Nutzung der Objektdaten von Münzsammlungen; <http://kenom.de>) attempts in a collaborative effort to create a virtual numismatic collection based on a number of (German) public collections including the Oriental Coin Cabinet Jena.

While the knowledge of coins and their inscription is important, the question of circulation and economic growth should be addressed with reference to its richest source: numismatics. HEIDEMANN (167, 1128) attempts an overview on the development of coinages and questions of monetary circulation and economic growth for the early Islamic period. He continues this approach with a study on the unlawful monetary system under the Seljūqs in Iraq (511), and economy and growth in Ayyūbid Pal-

estine (407). Especially the growing number of detailed coin reports from excavation, most notably by scholars from Israel, has contributed to new insights into the currency systems, and circulation areas. It becomes more and more obvious that below the nicely minted coins suited for a fine cabinet, there are vast quantities of locally badly produced cast coppers or octagonally cut metal sheet coins with barely defined striking. These monetary means hardly make it into any dignified collection, but they turn up in quantities in excavations. The discussion of archaeology is standard for classical numismatics, but still in the future for many subfields in Islamic numismatics and geographical regions, which work in a more difficult institutional environment such as in the Middle East and North Africa. ILISCH (169) discusses the various regional coinages circulating and minted despite the introduction of the empire-wide struck and circulating epigraphic dirham.

While we have a number of studies cataloguing coins meticulously, and with any given variety, we often find a reluctance to commit methodologically to die studies on the one hand and historical and economic history on the other hand especially in the otherwise very developed field of Ottoman numismatics. A remarkable exception is the outstanding study on the early 16th century Beçin hoard with all its follow-up studies - including metal analysis (477, 478, 479, 490). But we also find the other way round, excellent studies on monetary history, which are reluctant to engage the numismatic source to its fullest extent, such the studies by MELOY (434) on coins of the Sharifs of Mecca, by PONOMAREV (640) on the circulation around Black Sea, by MATTHEE, FLOOR, and CLAWSON (518) on Safavid to Qajar monetary history and by GARG (1007) on the coin circulation and legislation of the British Raj. This often encountered reluctance on the part of monetary historians to engage with the tedious work of largely uncharted Islamic numismatics and of the part of the numismatists to engage with questions of monetary history is due to the fact that still comprehensive approaches are a desideratum to make numismatic data more accessible. That coins can contribute also religion is demonstrated by RAMADĀN's (48) study on the concept of the *Mahdī* on coin protocols.

2. Pre-Reform Coinage Stefan Heidemann

The knowledge of early Islamic pre-reform coinage is one of the fastest growing sub-fields, not at least of all due to an annual meeting of a circle of collectors and scholars in the UK, and to their methodologically sound, question-driven discourses. It is exemplary of the amount of research that can be done when collectors and scholars talk regularly to each other. A summary of the progress in research on the so-called Umayyad Imperial Coinage is given by GOODWIN (74). The material base for research has been considerably broadened, not at least due to the efforts of Foss (64). Increasingly, archaeology helps to define the mints of types or offer new ones; for example CASTRIZIO (62). One debated field is the meaning of the iconography in the development of the early coinage and the interpretation of the all-epigraphic type. In articles which appeared almost simultaneously, BACHARACH (62), HEIDEMANN (83), and TREADWELL (130) offer different and complimentary interpretations. Minting patterns are further explored by GOODWIN's die studies (72). ILISCH (87) discussed 'Abd al-Malik failed attempt to centralise copper coinage, something which 'Abd al-Malik achieved for gold and silver.

3. The Umayyad and Abbasid Caliphate, and Its Regional Successors until the Buwayhids Stefan Heidemann

In studying the early Islamic period we see various trends. In a brief survey HEIDEMANN (167) gives an overview of numismatic history in the light of the economic history of the empire, while ILISCH (169) highlights the importance of the regional coinages circulating side by side with the standard dirhams in the Islamic Empire. Mapping of copper coins and their circulation are treated mostly on a regional level. NASTICH (210, 211) studies the copper coins in Transoxiana, Treadwell in Umayyad Iran, and VARDANYAN (230), copper, silver, and gold, alike, from Caucasian mints. Many studies on copper coins and those in other metals focus on a particular issue or small series. Unlike previous reporting periods, coin hoards from the Middle East (168, 425, 426, 427) are rarely studied and published, because archaeologically retrieved hoards are rarely published by the Antiquity authorities, and hoards from the Middle East quite often reach the market as selected parcels before being by any luck re-

corded. Hence, commercial parcels are usually diluted with other material, and there use as evidence is difficult at asses. Only where an established system for reporting archaeological coins is in place - that is, in the Middle East only in Israel, in the former Soviet states, and in Northern Europe – new hoards add significantly to our knowledge. (Publications on ‘Kufic’ hoards from outside the Islamic Empire are listed in the bibliography section 3; discussion on Eastern European coin circulation is reserved for section 11). While Viking age coinage seems to be well known, lesser known is the western Mediterranean dirham trade from North Africa via the Rhone and the Rhine into the Carolingian empire. ILISCH (170) added the surprising fact – supported by literary evidence - that North African copper coins were traded as commodities as well, reaching as far as northern Germany. This information greatly changes the perception of the nature of the coin trade between North Africa and Europe.

4. Al-Andalus Alberto Canto

Los estudios de carácter general más asociados con la historia monetaria se han centrado en la época omeya CANTO (257, 270) y CANTO y SALVATIERRA (286) en un manual de carácter universitario general y desde un punto de vista de la metodología por DOMÉNECH (291), FROCHOSO (313, 1), PÉREZ (350) Y RETAMERO (351).

En los últimos cinco años se ha prestado especial atención a la historiografía de la moneda de al-Andalus por CANTO (269) relacionada con la documentación de hallazgos y más general por CANTO (259261, 271), CANTO y RODRÍGUEZ (282) y MARTÍN sobre la formación de los estudios de moneda andalusí (329- 331).

Entre los repertorios aparecidos destacan los de BERNARDI (149), aunque con ausencias de ejemplares de colecciones españolas, el de moneda emiral de FROCHOSO (313), el muy interesante de FRANCÉS sobre época taifa (297) y el HOHERTZ sobre moneda almohade y post-almohade (324). Mención aparte merece el volumen 6 del *Medieval European Coinage* por sus breves menciones a la moneda islámica andalusí, algo atrasado en su bibliografía, por CRUSAFONT, BALAGUER, GRIERSON (290). Sobre la minería CANTO y CRESIER (280) con un estado de la cuestión sobre este tema en Al-Andalus y el Magreb y GRAÑEDA (321).

El problema de la falsificaciones, en contextos arqueológicos, en RODRÍGUEZ, SALINAS (354) y aspectos de aplicación de tecnología láser en limpieza de monedas andalusíes en PARDO *et alii* (336); una posible relación entre gliptografía y numismática en RODRÍGUEZ y SOUTO (356).

Se ha prestado especial atención a los feluses de la conquista y primera época, sobre todo, a gracias al estudio de los aparecidos en intervenciones y asociados a estratigrafías arqueológicas en BARBIERI (252), CASAL, MARTÍN, CANTO (287), RODRÍGUEZ (352, 353). En los materiales numismáticos asociados a exposiciones conmemorativas de la conquista islámica de Hispania CANTO (257-267) y sobre los precinctos de conquista asociados, en cierta medida a las monedas IBRAHIM (1148) y CANTO (273-278), GARCÍA (317); desde un punto de vista ideológico PEÑA, VEGA (348).

Los hallazgos de época emiral están representados por CANO *et alii* (254), CANTO (268), CANTO y MARTÍN (281), DOMÉNECH (295) Y BLANCO, SÁEZ (253); Los Mozos con precisiones a tipos concretos (325) Desde un punto de vista territorial del levante español DOMENECH analiza los procesos de islamización según el registro de las monedas (291-294); para Extremadura HERAS, GILOTTE (323); la zona del Estrecho en CANTO, MARTÍN (333). El felús emiral en FRANCÉS y RODRÍGUEZ (310, 312) y sobre la presencia aglabí FRANCÉS y RODRÍGUEZ (308); su presencia en Francia en CLEMENT (288, 289) y PARVÉRIE (339-344). Sobre la influencia de la moneda emiral en el norte peninsular MARTÍN, MINGUEZ, CANTO (334) y SANVICENTE (357, 360).

Para el siglo X se han estudiado hallazgos de gran tamaño en CANTO (256) y procedentes de excavaciones CANTO, CAMACHO (279) y la presencia de moneda fatimí en CANTO (272, 257). Aspectos concretos en Los Mozos (325) y PELLICER (345-347) y ZOUANI (361)

Las Taifas del siglo XI han seguido siendo el objeto de mayor atención, dado su interés histórico y pueden verse obras generales sobre los hammudíes de ARIZA (248-250), GASPARÍÑO (318) y estudios concretos de ejemplares de diversas dinastías en FRANCÉS (297), FRANCÉS Y GASPARÍÑO (306, 307). Para la época almorávide BAPTISTA (251), FRANCÉS y RODRÍGUEZ (310) y FROCHOSO (313). Los almohades y

sus sucesores están representados en CANTO (254), CANTO y RODRÍGUEZ (283, 285), FONTENLA (297), Los Mozos (327), MARTÍNEZ (335) y PÉREZ-ROMERO et alii, (348) mientras que las monedas de la dinastía nazarí han sido estudiadas por DOMÍNGUEZ (296) y GASPARÍNO, Los Mozos (319, 328).

5. North Africa and Muslim Sicily *Stefan Heidemann*

The progress in the study of the Maghreb has been regionally uneven. It is very strong for the region of Ifrīqiya (present-day Tunisia), followed by studies on the coinage of the western Maghrib (present-day Morocco). A catalogue by MAAMRI (390) adds to our knowledge on Idrīsid mint towns in the western Maghreb which are often connected with mining. EL HADRI (379) analyses the diplomatic relations of Ziyyānides. In Ifrīqiya unknown or almost unknown minor mint places, often in connection with rebellions, are studied and placed in the light of larger historical events, such as Majjāna by FENINA (371), and al-Baṣra by CANTO (366) and FRANCÉS (376). FENINA discusses a dirham of a rebellion against the Aghlabids (373), and a Kharijite revolt in the Maghreb (374). Besides the numismatic evidence FENINA (1313) looked into the legal framework of money in the Islamic west. DE LUCA 368, 370) studied various aspects of the Aghlabid coinage of Sicily.

6. Egypt and Bilād al-Shām (From the Fātimids/Seljūqs to the Mamlūks) *Stefan Heidemann*

For the study of post-Abbasid Egypt a revision of the Balog Mamlūk catalogue is under way in the form of the first volume of sylloges of the Islamic coins of the Israel Museum by BAIDOUN (402), to which SCHULTZ (422) added a numismatic comment on the history of Egyptian mints. SCHULTZ also worked on the minting technology (423) and especially on the coinage of the ephemeral caliph al-Musta‘in (421). For Palestine HEIDEMANN (408) tried to tie the monetary history into the wider economic history region of Bilād al-Shām. A hoard from Apollonia-Arsūf published by TAL and BAIDOUN 4-25) offers insights into the circulation of Mamlūk, Ottoman and Venetian Coinage in the Eastern Mediterranean in the early 16th century.

7. Arabian Peninsula, Yemen, and East Africa (Post-Classical Period) *Stefan Heidemann*

The research on the Arabian Peninsula concentrated on Yemen. PELI (435) presented her thesis on the Ziyādids in Yemen. MELOY (434) studied money sovereignty in Mecca on textual sources, but without tying into a study of the actual coinage. After a long time, a study on the neglected Islamic coinage of East Africa has appeared by FLEISHER and WYNNE-JONES (431). The study is based on an archaeological excavation.

8. Pre-Ottoman Anatolia *Stefan Heidemann*

At about the same time two comprehensive catalogues appeared for Rūm Seljūqs, both were the fruits of many years of diligent research and travelling, both authors looked at almost the same material, an unusual case of a numismatic double blind approach. The first one coming out was İZMIRLER’s (443) lavishly illustrated catalogue followed by NOVÁK who edited and revised the manuscript of the late founder of the ONS, BROOME (441), calling it modestly ‘a survey’. Both follow a dynastic approach, ruler by ruler, and fell short in analysing in-depth the material at hand in regard to monetary policy. Both provide short introductions to each ruler, while BROOME/NOVÁK has also a short note about the coinage of each ruler. ILISCH (442) follows the traces of the iconography of the Seljūq ‘lion and sun’, from Artuqid Mardīn to the adoption of this symbol by the Safavids and could convincingly establish a historical transmission via the Aq-Quyunlu. KOLBAS et altera (444) publishes a hoard of 405 Īlkān and late Rūm Seljūq dirhams allegedly found in Ukraine or Romania, buried in the early 14th century. A major step forward is attempt by PERK and ÖZTÜRK at a corpus on the coinage of post-Īlkān governor dynasties of Eretnā in eastern Asia Minor (445) and the Karamanids (446).

9. The Ottoman Empire Stefan Heidemann

The mapping of the coinage of the Ottoman Empire has made enormous progress, not at least due to the efforts of DAMALI's monumental 'History of Ottoman Coins' (457-463) which reached at six volumes in 2013, trying to register all variants of Ottoman coins, and of SREĆKOVIĆ's catalogs of akches which has reached its 6th volume (488). While meticulously cataloguing all varieties, all these publications fall short of die studies, which could yield clues on the relative quantity of one issue to another (versus rarity) and also clues for the use of internal mint marks. From an archaeological point of view the study of PFEIFFER-TAŞ (1132) on an early Ottoman burial site at Ayasoluk reveals shamanistic practices in an Islamic environment. Some important hoards were published: A gold hoard from 16th century Bulgaria studied by LAZAROV (473), and a hoard of about 50 thousand coins, mostly akches, of the early 17th century found in Beçin in south-western Turkey. This seminal exemplary publication was prepared by ÜNAL, KRINZINGER, ALRAM, PFEIFFER-TAŞ and SCHINDEL (477, 478, 479, 490) and provides unrivalled insight into the monetary economy of the time.

10. Iraq, Iran, and Afghanistan (from the Seljūqs to the 19th Century) Stefan Heidemann

For the period of the Seljūqs a private collection of the Saljūq coinage of Baghdād published by JAFAR (513) offers a numismatic narrative to the historical developments. Perhaps the most important study is RAMADĀN'S Tübingen Sylloge on Naysābūr, Sabzawār and other mints (531) in Khurāsān which reveals in the preface by ILISCH the relation between silvermines around al-Shāsh (modern Tāshkent) and their complimentary gold yield and the minting of that gold in Naysābūr which made the *dīnār sābūrī* the second most important gold coin beside the Fātimid *dīnār maghribī* in the 11th and 12th centuries. YOUNIS (538) in his thesis maps the coinage of the Salghūrids from the Seljūqs to the period of the Īkhāns. He published also articles on *dīnārs* of Isfahan 512 h. (537) and the autonomous Seljūq realm of Ai-Abā (536). While archaeological excavations are rarely published, and many illegal excavations took place, very few coin hoards or excavation reports expand our knowledge; LEBEDEV and KOÏFMAN (517) published one important hoard of *dīnārs* from the time of sultan Sanjar.

For the Īkhāns and coinage of their successor states which were once more popular in research, only a few studies appeared in the period of this report. Notable is an article by RAMADĀN (529) on a coin acknowledging Mamlūk authority in Mosul; and VARDANYAN (534) about the Sutayids in the Jazīra and Armīnya. ILISCH (442) traces the origins of the Safavid 'lion and sun' back to Artuqid Mārdīn.

MATTHEE, FLOOR, and CLAWSON (518) authored a seminal study on the monetary history of Iran from Safavids to the Qajars, mostly on the bases of chronicles and documents. The project of mapping the vast array of modern civic copper coins was continued by 'ALĀ AL-DĪN (501), and of early modern coins for Georgia by MUBAYADZHIAN (596).

11. Eastern Europe and the Caucasus (from the Seljūqs to the 19th Century) Vladimir Nastich

Coins and monetary circulation in the vast areas of medieval and pre-modern European Russia, Belarus, Ukraine and Transcaucasia have always been a subject of deep interest for the native historians and numismatists. During the last six-year period, more than a hundred publications have seen the light, almost always written in Russian, English or Georgian.

A group of diligent authors in the field has advanced numismatic research for the Caucasus. Virtually half the present list, although partly in co-authorship with other researchers, is comprised of the studies of AKOPYAN (539-557) and PAGHAVA (602-633). Somewhat fewer in number, but also a fertile oeuvre on the Islamic numismatics of the Volga region belongs to LEBEDEV (587-593); see also his even more numerous works on the Golden Horde (section 12). Perhaps half the total number of publications is dedicated to Islamic coins found in various specific regions. They deal with questions of coin production at local mints, either well-known or newly discovered, minting authorities, and the chronology of reigns reflected in their coinage, and other related topics. KHROMOV (580) inspects the Islamic copper coin finds, mostly belonging to the Seljūqs of Rūm in the pre-Mongol Kievan principality. GONCHAROV (572) studies Islamic and other Oriental coins circulating in 12th-15th century Cher-

son. The late PONOMAREV carries out a ground-breaking study on the evolution of monetary systems in the Black Sea region and the Balkans from the 13th to 15th centuries (640). Coins minted in Yerevan, Ganja and Nakhichevan during the Persian domination (16th - early 19th centuries) are surveyed by MUBAYADZHYAN (596).

Another considerable group of articles deals with coin types and varieties, monetary legends in Arabic and other languages, specific features of coin design, tamghas as signs of property, die-carving, etc. These topics, again, are largely developed in many articles written by AKOPYAN (539-541, 544, 549, et al.) and PAGHAVA (603-605, 610, 612, et al.), either on their own or together with GVIND-JILIA and KUDIN (618), LOBZHANIDZE (620), MOSANEF (552), SPANDERASHVILI (623), TURKIA (625-629), VARDANYAN (556, 557) and other co-authors. To PAGHAVA also belongs the profound investigation of weight standard, the system of denominations and the minting technique of Tiflis coins in the Afsharid period (608).

Some authors have presented the results of research and descriptions of coin hoards found in the Kursk District - LEBEDEV and STARODUBCEV (589), Shaki - PAGHAVA (613), Balchik in North-Eastern Bulgaria - LAZAROV (586), and elsewhere.

Questions of political and economic history through coins, transit trade, multilateral interregional relations and other issues, comprise the subject of about a dozen studies. Georgian-Norman relations are examined by DZHAVAKHISHVILI (563), the relation between the Near East and the lands of pre-Mongol Rus' by KOVALEV (579562), Georgia and the Golden Horde by DUNDUA (562), Byzantium and the Golden Horde by PONOMAREV (638, 639), Georgian-Ottoman and Georgian-Arabic numismatic relations by PAGHAVA and PATARIDZE (622).

Traditional works cataloguing the integral coinage of separate Islamic dynasties, namely two books by ZLOBIN on the emirate of Sulamids in Darband (655) and Shirvanshahs of the 3rd (Darbandi) dynasty (654), as well as the description of Georgian Coins in the collection of the Náprstek Museum, Prague, by PAGHAVA and NOVÁK (621), are also represented among the recent publications.

12. Golden Horde and its Successors *Vladimir Nastich*

Compared to any previous period in the past two centuries, recent publishing activity of Russian researchers in the field of Golden Horde numismatics has undergone unprecedented growth. The list of existing works from 1813 to the end of the twentieth century contains 485 entries. Between 2001 and 2006, based on the bibliographic review by PACHKALOV (778), over 90 contributions on the cited subject were published in Russia alone (not to mention yet more minor notes and abstracts of conference papers). The present list, also abridged, numbers as many as 190 for the comparable time range.

The thematic coverage of available printed works is wide and versatile. It includes new findings of single coins, groups and hoards; newly detected coin types and varieties; new mints and years of issue; reigning dates and succession of rulers; analysis of dies and die combinations; metal analyses and metrology; economic and political factors of money trade in the Golden Horde and with neighbouring countries, etc.

Works dealing with the description and research of coin hoards are especially numerous among the surveyed publications: AMEL'KIN, SELEZNEV and LEBEDEV (659), BUGARCHEV and STEPANOV (676, 677), FOMICHEV (688), FOMIN (690-692), KAZAROV and BESPAЛОV (713), KAZAROV, ZAIONCHKOVSKIY and ZAIČEV (720), LAZAROV (739), LEBEDEV - alone (741, 743, 744) and with co-authors (748, 749, 752, 758), NEDASHKOVSKIY (774), PETROV (795), PIPERIDI (808), REVA and TROST'YANSKIY (825), VOLKOV (840-843), et al.

BESPAЛОV alone (667) and in collaboration with KAZAROV (668) has submitted a study of late fourteenth to fifteenth centuries hoards, coin groups and money circulation in the river districts of Upper Oka, Don and Desna. BUGARCHEV (671) has published the archival material about a Juchid coin hoard from the scholarly heritage of the Kazan' ethnographer and collector Andrey F. Likhachev (1832-1890). NASTICH (772) has presented the hoard from West Kazakhstan, in which was detected the first silver coin of previously unknown khān Uljaytimur, and has reviewed the other specimens of that khān's coinage available up to that point.

Considerable attention is paid to the Juchid coinage by Ukrainian numismatists. KHROMOV (721, 722) has not only acted as compiler and editor of two prominent collections of articles embracing the works of AVRAMENKO (656), BOJKO-GAGARIN (669), GONCHAROV (701), LEBEDEV alone (744) and with SITNIK (754), PIVOROVICH (801), but also he himself is author of a series of studies on the topic (723-727) - including those in collaboration with his daughter - KHROMOV and KHROMOVA (728, 729). Coin issues of the Crimean khanate and the Genoese trading colony in Caffa (nowadays Feodosiya) have been covered also by CHOREF (681), HIRIK (710), LEBEDEV and ORLOV (749), NASTICH (771), NECHITAÏLO (773), PACHKALOV (793), PIVOROVICH (810, 811), PONOMAREV (812, 813), PUSHKAREV (819), et al.

Areas on the southern and western boundaries of the Golden Horde, as well as outside the Mongol realm have also been inspected from a numismatic aspect: Alpine Caucasia - LEBEDEV and SITNIK (753), NAROZHNYI and NAROZHNAYA (769); Moldova - KAZAROV and KRIVENKO (716, 734), NICOLAE and CIOCANU (776); Bulgaria - ATANASOV and RUSSEV (660), VILCU (836), Kyrgyzstan - KOSHEVAR (733), PETROV and KAMYSHEV (803); Tajikistan - DOVUDI and SHARIPOV (684); Turkmenistan - PETROV and BATRAKOV (799). Structural and typological relations of Juchid coinage and money circulation with more distant countries have been traced by PONOMAREV (813), DUNDUA (686), GONCHAROV (693, 696), BELYAEV and SIDOROVICH (664, 665). A highly questionable essay has been published by PONOMAREV (817) on the denomination "Barikat" that allegedly existed in the monetary system of the thirteenth century Northern Black Sea area.

A slim but informative catalogue of the collection of Golden Horde coins in the Bank of Lithuania, Vilnius, has been prepared by GONCHAROV and RUZAS (705). LEBEDEV (741) has dedicated his efforts to compiling a Corpus of coins of the Crimea within the Golden Horde. Indian gold coins found in the territory of former Ulus of Juchi and collected in the National Museum of Tatarstan were described by SINGATULLINA (827).

Reprints have been undertaken of the two old but still important numismatic works by BERTIER DE LA GARDE (666) and MARKOV (760). A peculiar critique revealing the role of Juchid numismatics as counter-argument to historical distortions and myth-making is presented by IVANOV (712).

13. Central Asia *Vladimir Nastich*

Unlike the Soviet and early post-Soviet time, the works of Russian authors on Islamic numismatics of Central Asia, published within the period under review, perceptibly prevail in number above those of their native colleagues from Kazakhstan and other republics of the region. However, taken together with the articles written in joint authorship and the production of ex-Central Asian citizens, the two mentioned parts would display a parity.

The most fruitful output of scholarly production in Tajikistan belongs to DOVUDI from Dushanbe, as much alone (867-876) as in collaboration with ILISCH from Tübingen (877-879) and fellow citizens (880-885). The numismatic activity for the region of Kyrgyzstan is exceptionally represented by the studies of KAMYSHEV (863, 911-915, 959) and KOSHEVAR (924-934), of which but a few have been written in co-authorship or edited by other persons.

Among the publications by numismatists from Uzbekistan, are the contributions by ASHIROV and KUZNECOV (850), ATAKHODZHAEV and IMAMBERDIEV (851), KANASH (916), MIRZAEV on his own (937) and in collaboration with KULMAMATOV (938) and PETROV (960); also by PUSTOVAYA (963), academician RTVELADZE (965), SHPENEVA alone (967) and with KHUZHANAZAROV (966), as well as two post-humously printed articles by the late KOCHNEV (920, 921) and a collective volume prepared with his participation (892).

As well as KENZHEAKHMET (917) and SMAGULOV (969), other researchers from Kazakhstan have worked together with their Russian colleagues: ERZHANOV (897) - with GONCHAROV and GALKIN (Moscow); ALIMBAI (955), BAÏPAKOV, VOYAKIN (956), BAZYLKHAN, KAKABAEV, BURNASHEVA, ZHOLDASBAEVA (957), ZHOLDASOV (962) - all in turn with PETROV (Kazan').

Less rich was the scholarly output from Turkmenistan: one cannot point to anyone but the recently deceased archeologist GÜNDÖGDÝÝEV (906), perhaps not only because the lack of specialists in the Republic of Turkmenistan but also due to scanty information arriving from behind its borders.

High attention, as usual, has been paid by scholars of Central Asian numismatics to the traditional topics and issues. Perceptibly numerous (about 20 in all) are descriptions of newly found coin hoards: ALEKSANDROV, BELYAEV, SIDOROVICH, CAO (849), DOVUDI - alone (868, 875) and with SHARIPOV (884, 885), FEDOROV and KUZNETSOV (8939), GRACHEV alone (901) and with PETROV (905), KAMYSHEV (915), KOSHEVAR and ABASBEKOV (934), PETROV and MIRZAEV (960), SMAGULOV (970), et al.

Minting authorities, places and dates of issue, coin types, die analysis, questions of metrology; coin production, money circulation and transit trade; problems of history through coins – all these, being invariably among the subjects of research, are so common throughout the following list that the respective entries hardly require a special mention here again. What seems worth separate noting indeed is a set of important reviews of the coinages of particular rulers and dynasties - BRAGIN, BATORAKOV (861), NASTICH (940, 943), WANG (972), catalogues of public collections - FEDOROV, KOCHNEV, KURBANOV and VOEGELI (892), PETROV, ALIMBAI (955), as well as resumptive and generalizing works - KAMYSHEV (911), PETROV, BAZYLKHAN, KAKABAEV, BURNASHEVA and ZHOLDASBAEVA (957), PETROV (951). A real discovery, made recently by GONCHAROV and NASTICH (898, 899), opens up a completely new money-issuing state of Oghuz Turks, located in the Syrdaria basin and pleaded as subject to the Abbasid Caliph.

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