

ÍNDICE

ELEMENTAL AND PB ISOTOPIC ANALYSIS OF ARCHAEOLOGICAL METALS BY LASER ABLATION-Q/MC-ICP-MS: METHODS RESTRICTIONS AND APPLICATION EXAMPLES, Sonia García de Madinabeitia, María Eugenia Sánchez-Lorda, José Ignacio Gil Ibarguchi, José María Badillo Larrieta	7
ARE PLATINUM AND PALLADIUM RELEVANT TRACERS FOR ANCIENT GOLD COINS? ARCHAEOMETALLURGICAL AND ARCHAEMETRIC DATA TO STUDY AN ANTIQUE NUMISMATIC PROBLEM, Maryse Blet-Lemarquand, Sylvia Nieto-Pelletier, Florian Téreygeol, Arnaud Suspène.....	19
THE GREAT ORME BRONZE AGE COPPER MINE: LINKING ORES TO METALS BY DEVELOPING A GEOCHEMICALLY AND ISOTOPICALLY DEFINED MINE-BASED METAL GROUP METHODOLOGY, Robert Alan Williams	29
BRONZE AGE MINING IN SOUTHEAST SPAIN. NEW COPPER MINES FROM THE JANDULA AND YEGUAS VALLEYS, SIERRA MORENA, Luis Arboledas-Martínez, Charles Bashore, Eva Alarcón-García, Francisco Contreras-Cortés, Auxilio Moreno-Onorato, Juan Jesús Padilla-Fernández.....	49
NEW DATA ON SCALE PRODUCTION OF COPPER IN THE CULTURE OF THE EL ARGAR. THE DUMPING GROUND FOR PEÑALOSA (BAÑOS DE LA ENCINA, JAÉN), Auxilio Moreno-Onorato, Salvador Rovira-Llorens, Francisco Contreras Cortés, Martina Renzi, Luis Arboledas-Martínez, Eva Alarcón-García, Adrián Mora-González, Alejandra García-García	65
SMALL SCALE BRONZE AGE METALLURGY: NEW DATA FROM SANTA LLÚCIA (ALCOSSEBRE, CASTELLÓN, SPAIN), Ignacio Montero-Ruiz, Mercedes Murillo-Barroso, Gustau Aguilella, Salvador Rovira	79
TIN PRODUCTION IN BRITTANY (FRANCE): A RICH AREA EXPLOITED SINCE BRONZE AGE, Cécile Le Carlier de Veslud, Céline Siepi, Christian Le Carlier de Veslud	91
ARCHAEOMETALLURGY OF TIN BRONZE IN THE DEH DUMEN BRONZE AGE GRAVEYARD, SOUTHWEST OF IRAN, Omid Oudbashi, Reza Naseri.....	105
COPPER PRODUCTION IN EARLY BRONZE AGE THASSOS: NEW FINDS AND EXPERIMENTAL SIMULATION IN THE CONTEXT OF CONTEMPORANEOUS AEGEAN METALLURGICAL PRACTICES, Nerantzis Nerantzis, Yannis Bassiakos, Myrto Georgakopoulou, Elena Filippaki, Georgios Mastrotheodoros.....	115
COMPARATIVE STUDY OF SLAGS FROM TWO DIFFERENT COPPER SMELTING SITES IN THE SOUTHERN 'ARABA VALLEY, ISRAEL, Shana Shilstein, Uzi Avner, Tal Kan-Cipor - Meron, Sariel Shalev	127
INVESTIGATIONS OF A SLAG FROM COPPER SMELTING DISCOVERED AT THE BRONZE AGE SITE PREIN VII/CU IN LOWER AUSTRIA, Roland Haubner, Susanne Strobl, Susanne Klemm.....	135

THE SMELTING FURNACES OF AYN SOUKHNA: THE EXCAVATIONS OF 2013, 2014 AND 2015, Georges Verly	143
COMPOSITION OF BRONZE AGE GOLD BRACELETS FROM THE PORTUGUESE AREA, Isabel Tissot, Maria Filomena Guerra	159
METALLURGICAL AND TECHNOLOGICAL ASPECTS OF EARLY IRON AGE GOLD, Barbara Armbruster, Maryse Blet-Lemarquand, Bernard Gratuze, Verena Leusch, Ernst Pernicka, Birgit Schorer, Roland Schwab.....	169
ESTIMATING THE ECONOMIC AND ECOLOGICAL IMPLICATIONS OF AN IRON SMELTING SITE IN BEREKET, SW-TURKEY, Eekelers Kim, Scott Rebecca, Hodgins Gregory, Muchez Philippe, Poblome Jeroen, Degryse Patrick.....	179
ARCHAEOMETALLURGICAL STUDIES OF IRON AGE WEAPONS FROM THE IBERIAN PENINSULA. A VISION IN PERSPECTIVE, Marc Gener Moret.....	195
PUTTING SOME IRON BACK IN THE IRON AGE: A CASE STUDY FROM THE UK, Peter Halkon	205
THE EARLIEST IRON BLOOMERY IN SOUTHEASTERN NORWAY – TECHNOLOGICAL CONFORMITY AND VARIATION, Bernt Rundberget, Jan Henning Larsen	217
SUPPLY AND DEMAND: METAL RECYCLING IN SOUTHERN GERMANY AT THE END OF THE LATE IRON AGE, Roland Schwab.....	227
HANDHELD XRF MAPPING OF ELEMENTAL COMPOSITION OF ROMAN SILVER ARTEFACTS: PRELIMINARY RESULTS, Viktória Mozgai, Bernadett Bajnóczki, István Fórízs, Zoltán May, István G. Hatvani, Marianna Dági, Zsolt Mráv, Mária Tóth	237
TECHNOLOGICAL CHANGES IN MINING AND METALLURGY FROM ROMAN TO MEDIEVAL TIMES: EVIDENCE FROM A PB-AG (-CU) ORE DISTRICT IN CENTRAL KOSOVO, Katrin J. Westner, Guntram Gassmann, Sabine Klein, Gabriele Körlin	249
ARCHAEOMETALLURGICAL EXAMINATION OF FINDS FROM MEDIEVAL BELL CASTING FOUNDRIES IN HUNGARY, Adrián Berta, Béla Török, Mária Tóth, Péter Barkóczy, Árpád Kovács, Krisztián Fintor	259
LITHARGE CAKES FROM CASTEL-MINIER (ARIÈGE, FRANCE): UNDERSTANDING STRATEGIES OF THE CUPELLATION IN A MULTI-METALS WORKSHOP FROM THE 14 TH CENTURY, Julien Flament, Guillaume Sarah, Florian Téreygeol.....	269
LOST-WAX CASTING PROCESS ANALYSIS OF THE LOST MUISCA SIECHA RAFT, Natalia Rueda Guerrero, Jairo Escobar Gutiérrez.....	283