

TABLE OF CONTENTS

| | |
|--|-----|
| PREFACE..... | 7 |
| INTRODUCTION | |
| ARCHAIA: FROM EXCAVATION STRATEGIES TO ARCHAEOLOGICAL PARKS (<i>Nicolò Marchetti</i>)..... | 11 |
| PROTECTION OF CULTURAL PROPERTY AND ARCHAEOLOGICAL HERITAGE IN THE EUROPEAN UNION AND IN ITALY (LEGISLATION AND RECENT CASE-LAW) (<i>Guglielmo Cevolin</i>) | 17 |
| TOWARDS AN INTERNATIONAL AGENDA FOR AGREING ON A STANDARD POLICY OF PRESERVATION, PRESENTATION AND MANAGEMENT OF ARCHAEOLOGICAL SITES AND PARKS (<i>Ingolf Thuesen</i>)..... | 23 |
| TOPOGRAPHY AND SURVEYING | |
| SURVEY AND TECHNICAL ANALYSIS: A MUST FOR UNDERSTANDING MONUMENTS (<i>Carla Maria Amici</i>)..... | 29 |
| IMAGE-BASED 3D RECORDING AND MODELLING OF LANDSCAPES AND LARGE CULTURAL HERITAGE SITES (<i>Armin Gruen</i>)..... | 41 |
| MULTISCALE INTEGRATED APPLICATION OF GEOMATIC TECHNIQUES FOR CULTURAL HERITAGE DOCUMENTATION (<i>Gabriele Bitelli</i>)..... | 53 |
| PRECISE GLOBAL GEOREFERENCING OF SITES AND GEODETIC TECHNIQUES FOR MORPHOLOGICAL SURVEYS WITHIN A COMMON REFERENCE FRAME (<i>Luca Vittuari</i>)..... | 59 |
| TOPOGRAPHICAL FIELD OPERATIONS IN MAPPING ARCHAEOLOGICAL SITES (<i>Enrico Giorgi</i>)..... | 67 |
| SOME ASPECTS OF CLOSE-RANGE PHOTGRAMMETRIC SURVEYS FOR CULTURAL HERITAGE DOCUMENTATION (<i>Antonio Zanuttta, Gabriele Bitelli</i>)..... | 77 |
| TAKE A LOOK, MAKE A SKETCH AND RE-THINK IT: SURVEYING AND 4D MODELS FOR RECONSTRUCTING ARCHAEOLOGICAL SITES (<i>Moritz Kinzel</i>) | 91 |
| MATERIAL CULTURE CHARACTERISATION | |
| TRACES OF THE PAST: CHARACTERISING MATERIAL CULTURE (<i>Luisa Mazzeo Saracino</i>)..... | 103 |
| A MINERALOGICAL-GEOCHEMICAL APPROACH TO POTTERY CHARACTERISATION (<i>Vanna Minguzzi, Maria Carla Nannetti</i>)..... | 113 |
| A SYSTEMATIC APPROACH FOR THE DAMAGE ASSESSMENT OF MUSEUM METALS COLLECTIONS BASED ON STATISTICS AND PORTABLE TECHNIQUES: THE CASE STUDY OF ANCIENT MESSENE, GREECE (<i>M. Giannoulaki, V. Argyropoulos, T. Panou, G. Michalakakos, A.G. Karydas, V. Kantarelou, D. Anglos, A. Giakoumaki, V. Perdikatis, C. Apostolaki, P. Themelis, S. Poulimenea</i>) | 121 |
| CHARACTERISATION AND DOCUMENTATION OF MATERIAL CULTURE (PARTICULARLY POTTERY) (<i>Susanne Kerner</i>) | 131 |
| RECONSTRUCTING HISTORY FROM MATERIAL CULTURE: THE CASE OF ETRUSCAN MARZABOTTO (<i>Elisabetta Govi</i>) | 137 |
| MATERIAL EVIDENCE AS A VEHICLE FOR SOCIO-CULTURAL RECONSTRUCTION (<i>Alan Walmsley</i>)..... | 147 |
| DATA PROCESSING | |
| GIS ARCHIVES FOR SITES AND THEIR LANDSCAPES (<i>Maurizio Cattani</i>)..... | 155 |
| SEMANTIC PROFILING TO SUPPORT MULTI-VIEW AND MULTIMODAL INTERACTION (<i>Flavio De Paoli, Glauco Mantegari</i>)..... | 159 |
| COMPUTATIONAL INTELLIGENCE IN ARCHAEOLOGY: THE AUTOMATIC PRODUCTION OF KNOWLEDGE (<i>Juan A. Barceló</i>)..... | 167 |
| WIRELESS NETWORKS IN ARCHAEOLOGY AND CULTURAL HERITAGE (<i>Massimo Ancona, Davide Conte, Donatella Pian, Sonia Pini, Gianluca Quercini, Antonella Traverso</i>)..... | 175 |
| NADIR – THE ARCHAEOLOGICAL RESEARCH NETWORK OF THE DEPARTMENT OF ARCHAEOLOGY, UNIVERSITY OF BOLOGNA (<i>Antonio Gottarelli</i>) | 181 |
| BIOARCHAEOLOGICAL ISSUES | |
| AN INTRODUCTION TO BIOARCHAEOLOGY THROUGH A ZOOARCHAEOLOGICAL PERSPECTIVE (<i>Antonio Curci</i>)..... | 187 |
| BIOARCHAEOLOGY: THE HUMAN SKELETON AS A HISTORICAL SOURCE (<i>Maria Giovanna Belcastro, Valentina Mariotti</i>)..... | 199 |
| FACES FROM THE PAST: THE RECONSTRUCTION OF HUMAN PHYSICAL APPEARANCE (<i>Niels Lynnerup, Bjørn Skaarup</i>) | 209 |
| PALAEONvironment AND SUBSISTENCE ECONOMY THROUGH THE ANALYSIS OF BOTANICAL MACROREMAINS (<i>Marialetizia Carra</i>) | 215 |
| THE USE OF ARCHAEOBOTANICAL ASSEMBLAGES IN PALAOECONOMIC RECONSTRUCTIONS (<i>Mette Marie Hald</i>) | 223 |
| AN INTRODUCTION TO FAUNAL REMAINS AND ENVIRONMENTAL STUDIES: A MISMATCH OR A MATCH MADE IN HEAVEN? (<i>Pernille Bangsgaard</i>) | 231 |
| LANDSCAPES | |
| CONSERVATION AND PRESENTATION OF HISTORICAL EUROPEAN MINING LANDSCAPES: THE RAMMELSBERG AND GOSLAR UNESCO WORLD HERITAGE SITE, AND THE NORTH-WESTERN HARZ MOUNTAINS IN GERMANY (<i>Christoph Bartels</i>)..... | 241 |
| TEN YEARS OF COLLABORATION ON CULTURAL LANDSCAPES RESEARCH (<i>Almudena Orejas, María Ruiz del Árbol</i>) | 249 |

| | |
|--|-----|
| FROM ARCHAEOLOGICAL PARKS TO THE ENHANCEMENT OF ARCHAEOLOGICAL LANDSCAPES: NEW DIRECTIONS IN ITALIAN HERITAGE MANAGEMENT (<i>Andrea Zifferero</i>) | 257 |
| ENVIRONMENTAL ASSESSMENT OF AN ARCHAEOLOGICAL SITE FOR THE DEVELOPMENT OF AN ARCHAEOLOGICAL PARK (<i>Paola Rossi Pisa, Gabriele Bitelli, Marco Bittelli, Maria Speranza, Lucia Ferroni, Pietro Catizone, Marco Vignudelli</i>) | 273 |
| CULTURE, CONTEXT, COMMUNICATION: AN ESSAY ON THE MUSEOLOGICAL DEPTH OF FIELD (<i>Tim Flohr Sørensen</i>) | 285 |
| GLOBAL CLIMATE CHANGE AND ARCHAEOLOGICAL HERITAGE: PREVISION, IMPACT AND MAPPING (<i>Cristina Sabbioni, Alessandra Bonazza, Palmira Messina</i>) | 295 |
| CONSERVATION, MANAGEMENT AND PRESENTATION OF SITES | |
| THE RESTORATION AND CONSOLIDATION OF ARCHAEOLOGICAL SITES AND HISTORICAL BUILDINGS. SCIENCE – RESEARCH – TECHNOLOGY (<i>Pasquale Zaffaroni</i>) | 303 |
| MODERN APPROACHES TO ARCHAEOLOGICAL CONSERVATION (<i>Giovanna De Palma</i>) | 307 |
| THE POLICY FOR THE CONSERVATION OF THE ARCHAEOLOGICAL HERITAGE IN TURKEY (<i>Abdullah Kocapinar</i>) | 313 |
| LOW IMPACT RESTORATION TECHNIQUES, COVERINGS AND FIXED DEVICES IN AN ARCHAEOLOGICAL PARK: A CASE STUDY AT TILMEN HÖYÜK IN TURKEY (<i>Stefano F. Musso</i>) | 319 |
| PRESERVATION AND PRESENTATION OF NEOLITHIC SITES: A CASE STUDY AT SHKARAT MSAIED, SOUTHERN JORDAN (<i>Moritz Kinzel</i>) | 331 |
| CULTURAL HERITAGE MANAGEMENT: THE SPECIAL CASE OF THE WORLD HERITAGE SITE OF PETRA (<i>May Shaer</i>) | 341 |
| THE DESERT AND THE SOWN: ISLAMIC CITIES AS A PARADIGM FOR SITES ON THE FRINGE? (<i>Alan Walmley</i>) | 347 |
| THE ARCHAEOLOGICAL PARK AND OPEN-AIR MUSEUM AT THE MIDDLE BRONZE AGE SITE OF MONTALE (MODENA, ITALY) (<i>Andrea Cardarelli, Ilaria Pulini</i>) | 355 |
| STRATEGIC MANAGEMENT OF ENHANCEMENT PROJECTS ON URBAN ARCHAEOLOGICAL SITES: THE APPEAR METHOD (<i>Anne Warnotte, Marianne Tinant, Pierre Hupet</i>) | 367 |
| UNDERSTANDING THE HISTORIC URBAN FABRIC OF TOWNS: IMPLICATIONS FOR ARCHAEOLOGICAL RESEARCH DESIGN AND PUBLIC ARCHAEOLOGY (<i>Ian Simpson</i>) | 375 |
| LATE ANTIQUE MOSAICS AND THEIR ARCHAEOLOGICAL CONTEXT (<i>Isabella Baldini</i>) | 379 |
| ARCHAEOLOGY AND ITS MUSEUMS: FROM THE EXCAVATION TO MULTIMEDIA DISSEMINATION (<i>Maria Teresa Guaitoli</i>) | 391 |
| NATIONAL POLICIES: CROATIA AS A CASE STUDY | |
| THE CROATIAN ARCHAEOLOGICAL HERITAGE: SOME INTRODUCTORY REMARKS (<i>Nenad Cambi, Giuseppe Lepore</i>) | 399 |
| THE ARCHAEOLOGICAL SITE OF BURNUM: RESEARCH PERSPECTIVES WITHIN A PROTECTED NATURAL LANDSCAPE (<i>Igor Borzić</i>) | 401 |
| ARCHAEOLOGICAL DIAGNOSTICS EXPERIENCES AT BURNUM (<i>Federica Boschi, Alessandro Campedelli</i>) | 409 |
| CRITICAL APPROACH TO THE EXHIBITIONS OF THE IMPERIAL CULT IN THE ROMAN ILLYRICUM WITH REGARD TO ITS EARLY STAGE OF DEVELOPMENT (<i>Miroslav Glavičić, Željko Miletić</i>) | 417 |
| ARCHAEOLOGICAL HERITAGE ALONGSIDE THE KRKA RIVER (<i>Josko Zaninović</i>) | 427 |
| ROMAN EPIGRAPHICAL MONUMENTS FROM ASSERIA AND BURNUM: THE ROLE OF EPIGRAPHY IN RECONSTRUCTING THE HISTORY OF SITES (<i>Miroslav Glavičić, Željko Miletić</i>) | 435 |
| ADDRESSES OF CONTRIBUTORS | 445 |
| COLOUR PLATES | |