Archaeological Prospection

Proceedings of the
10th International Conference on Archaeological Prospection

Vienna, May 29th – June 2nd 2013

Organized by
the Ludwig Boltzmann Gesellschaft,
the Ludwig Boltzmann Institute for Archaeological Prospection
and Virtual Archaeology
and the Austrian Academy of Sciences

in cooperation with
ZAMG Archeo Prospections®, MALÄ Geoscience, Foerster Group,
the Archaeological Parc Carnuntum, Allsat GmbH, Beta Analytic Ltd.,
Interspot Film GmbH and Universität Wien.
**List of Sessions**

**Wednesday May 29th 2013**

**Overview of Archaeological Prospection – Part 1**

<table>
<thead>
<tr>
<th>Session</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prehistoric ring monuments in the Northern Caucasus (Russia): Remote sensing, large-scale magnetic prospecting and first test excavations</td>
<td>J.W.E. Fassbinder, A. Belinskiy, R. Linck, S. Reinhold</td>
</tr>
<tr>
<td>Neolithic settlement at Těšetice-Kyjovice (Czech Republic): Magnetic survey and archaeological excavations</td>
<td>P. Milo</td>
</tr>
<tr>
<td>Chasing aeroplanes: developing a vehicle towed caesium magnetometer array to complement aerial photography over three recently surveyed sites in the U.K.</td>
<td>N. Linford, P. Linford, A. Payne, E. Carpenter, D. Grady, H. Winton, P. Horne</td>
</tr>
<tr>
<td>Identifying and documenting landscape changes by the use of multi-temporal historical aerial photos and ALS-generated DEMs – an automated and retrospective approach</td>
<td>O. Risbøl, C. Briese, M. Doneus, A. Nesbakken</td>
</tr>
<tr>
<td>New approaches for archaeological feature extraction of airborne imaging spectroscopy data</td>
<td>G. Verhoeven, M. Doneus, C. Arzberger, M. Wess, M. Rus, M. Pregesbauer, C. Briese</td>
</tr>
<tr>
<td>Measuring the topography of submerged archaeological sites from the air</td>
<td>M. Doneus, N. Doneus, C. Briese, M. Pregesbauer, G. Mandiburger, I. Miholjek, F. Daim</td>
</tr>
</tbody>
</table>

**Overview of Archaeological Prospection – Part 2**

<table>
<thead>
<tr>
<th>Session</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stonehenge Hidden Landscapes Project: Geophysical investigation and landscape mapping of the Stonehenge World Heritage Site</td>
<td>V. Gaffney, C. Gaffney, P. Garwood, W. Neubauer, H. Chapman, K. Löcker, E. Baldwin</td>
</tr>
<tr>
<td>The Roman Heidentor as study object to compare mobile laser scanning data and multi-view image reconstruction</td>
<td>N. Studnicka, C. Briese, G. Verhoeven, M. Kucera, G. Zach, C. Ressl</td>
</tr>
<tr>
<td>An electromagnetic induction survey of the Stonehenge landscape</td>
<td>P. De Smedt, T. Saey, M. Van Meirvenne</td>
</tr>
<tr>
<td>Large-scale archaeological prospection of the Iron Age settlement site Uppåkra - Sweden</td>
<td>I. Trinks, L. Larsson, M. Gabler, E. Nau, W. Neubauer, A. Klimek, B. Söderberg, H. Thorén</td>
</tr>
<tr>
<td>The Viking-age royal burial site of Borre (Norway): LIDAR-based landscape reconstruction and harbour location at an uplifting coastal area</td>
<td>M. Doneus, E. Draganits, T. Gansum</td>
</tr>
</tbody>
</table>

**Poster and Multimedia Session – Integrated Prospection Approaches**

<table>
<thead>
<tr>
<th>Session</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Determination of the applicability of high-resolution X-Band satellite radar for the archaeological prospection by a comparison with a ground-based survey</td>
<td>R. Linck, S. Buckreuss, S. Seren</td>
</tr>
<tr>
<td>Miran and the Silk Road. Integrated prospection at the ancient oasis-city in Xinjiang, China</td>
<td>E. Smagur, K.J. Hanus, A. Buszek</td>
</tr>
<tr>
<td>Non-Invasive Archaeological Research Carried Out Recently In Northern Muntenia, Romania</td>
<td>A. Frinculeasa, M.N. Frinculeasa, C. David</td>
</tr>
<tr>
<td>Settlements out of nowhere – Extensive archaeological evidence from combined geophysical prospection and aerial photography</td>
<td>T. Wunderlich, B. Majchczack, E.S. Mauritsen, M. Segschnieder, H. Stümpel, W. Rabbel</td>
</tr>
<tr>
<td>Remote sensing techniques in the study of civil settlement near Novae (Moesia Inferior)</td>
<td>M. Jaworski, P. Wroniecki, M. Pisz, A. Tomas, J. Pisz</td>
</tr>
</tbody>
</table>
54 Airborne laser scanning (ALS) as a tool for mapping of burial mounds in the area of Hemera forest (Czech Republic)  
J. John, O. Chvojka

55 Application of non-destructive archaeological methods in research of prehistoric and medieval monuments in the South Bohemia  
J. John, P. Menšík, J. Hložek, L. Čapek, P. Baierl

57 Managing and protecting the World Heritage Site of the Roman Limes – The contribution of geophysical surveying  
T. Becker, N. Bathmann, B. Zickgraf

60 Integrated geophysical prospection of a late-medieval monastery in Lower Bavaria  
R. Linck, J.W.E. Fassbinder, F. Becker

63 Environmental impact assessment: archaeological prospecting  
L. Rocha, G. Branco

65 Towards an integration of laser scanner survey and geophysical prospection: an example from the Nuragic Site of Monte 'E Nuxi- Esterzili (Sardinia, Italy)  
G. Ranieri, D. Schirra, A. Trogu, A. Saba

68 Integrated geophysical survey at Katarinka Monastery (Slovakia)  
D. Wilken, T. Wunderlich, W. Rabbel, H. Stümpel, R. Pašteka

72 Geophysical Surveys at the Eastern Area of Jebel Barkal Archaeological Site, Northern Sudan  

74 Reconstructing the Spatial Layout of the Church of St. Lawrence, Sigtuna, Sweden using Ground-penetrating Radar and Photogrammetry  
A. Viberg, J. Schultzén, A. Wikström

77 Slawsko – the prince’s worthy seat? Non-invasive archaeological surveys  
W. Raczkowski, M. Bogacki, W. Małkowski, K. Misiewicz

80 What can soil marks tell us? Understanding the influence of buried archaeological remains on the spectral properties of surface soils  
Y.J. Choi, D. Jordan, T. Wagner, T. Mahr

81 The Neolithic Flint mine of Arnhofen in Lower Bavaria, Southern Germany: Aerial Archaeology, Magnetometry and Ground-penetrating radar Surveys  
J. Koch, J.W.E. Fassbinder, R. Linck, K. Eisele, M.M. Rind

84 Newly discovered settlements of the late Bronze Age and early Iron Age in southwest Tajikistan: Preliminary excavation results and first site maps based on magnetometer prospection  
J.W.E. Fassbinder, J. Koch, M. Teufer

88 An Integrated geophysical survey at Peltuinum (Abruzzo, Italy). A case study in GPR processing  
S. Hay, S. Kay, R. Cascino, A. James, M. Berry

89 First MAC international workshop on archaeological geophysics  

91 The Parnassus Project: Archaeology and Engineering collaboration on ERT use in building conservation  
P. Copeland, D. d’Ayala, G. Earl, J. Miles, E. Richley, V. Stephenson, K. Strutt

92 Integrating archaeo-geochemical methods for intra-site archaeological prospection  
R.B. Salisbury

95 Prospecting Kreuttal/Austria - erosion and accumulation  
M. Kucera

96 Large scale, high resolution archaeological geophysical prospection: A source for palaeoenvironmental data  
P. Schneidhofer, R. Cannell

99 Long term integrated archaeological prospection on the Stubersheimer Alb – Giving meaning to a marginal landscape  
K. Kastowsky-Priglinder, R. Schreg, I. Trinks, E. Nau, K. Löcker, W. Neubauer

101 Magnetic modelling at site and landscape scale  
J. Kainz
103 Archaeological prospections in the northern Marche region (Italy): new aerial and geophysical surveys between Misa and Cesano valleys
F. Boschi, E. Giorgi, M. Silani

107 The Stonehenge Hidden Landscape Project – Data acquisition, processing, interpretation

110 Soil geochemistry as a tool aiding geophysical prospection on an archaeological site in Sagalassos (SW-Turkey)
K. Dirix, P. Muchez, P. Degryse, B. Mušič, J. Poblome

114 Spatial analysis of magnetic susceptibility and geochemical data on Neolithic sites in Serteya, Northwest of Russia
A.N. Mazurkevich, M. Kulkova, J.W.E. Fassbinder, D. Hook

117 Developing an integrated prospection approach for the archaeological evaluation of alluvium covered late Pleistocene-early Holocene landscapes: first results from Doelpolder Noord (Beveren, Belgium)
J. Verhegge, T. Missiaen, P. Crombé

121 Taking into account the depth variations of the bedrock for the interpretation of the surveys achieved in the eastern area of the site of Puig Ciutat, Barcelona
R. Tamba, R. Sala, P. De Smeth, E. Iriarte, E. Garcia, M. Van Meirvenne

123 Unravelling a complex of enclosures. An integrated prospection approach for a deserted historic farm-complex at Kleit, Maldegem (Flanders, Belgium)

126 Applications of acoustic, magnetometric and topographic submarine devices for a method of underwater archaeological research
B. Wirtz, P. Pelgas, E. Miejac

127 Ancient traffic routes in the Sudanese western desert – An archaeological remote sensing
J. Eger

129 From the Air to the Atomic Level of a Ditch: Integrating Geophysical and Geochemical Methods at the Prehistoric Cropmark Site at Forteviot (Perthshire, Scotland)
C. Cuenca-García, R.E. Jones, A.J. Hall, T. Poller

134 Contextualising a monumental burial – the Gokstad revitalised project
J. Bill, E. Nau, W. Neubauer, I. Trinks, C. Tonning, L. Gustavsen, K. Puasche, S. Seren

Poster and Multimedia Session – Interpretation and Presentation

137 The Ground Penetrating Radar Survey On Heraion Teichos Acropolis (Tekirdag-Turkey)
M. Kucukdemirci

140 3D-GPR prospection in Pompeiopolis – a metropolis in the Roman Paphlagonia
R. Linck, R. Bielfeldt, J.W.E. Fassbinder, J. Koch, M. Kucukdemirci

144 The geophysical research of the Dome of St. Elizabeth and the Chapel of St. Michael in Kosice
J. Tırpák, M. Bielich

147 Karabalgasun: The Uigurian Capital in the Orchon valley, Mongolia. Preliminary results and first tests with magnetometer prospection
J.W.E. Fassbinder, R. Linck, C. Franken

150 Preliminary results on the development of a comprehensive interpretation work flow. The Case Study Kleinrötz/Austria
K. Kastowsky-Priglinger

153 Historic Landscapes in Relief: Detection and interpretation of historic landscape elements using geomorphometric and image analysis techniques
C. Sevara

K. Kastowsky-Priglinger
Thursday May 30th 2013

**Integrated Prospection Approaches – Part 1**

156 How to construct a fortification system in the borderland of a swampy lowland during the 16th/17th century – a comprehensive prospection study of the Dieler Schanzen, Eastern Frisia, NW Germany
A. Häser, C. Schweitzer

160 Multi Depth Electromagnetic Surveys in Ireland: Increasing our chances of detecting archaeological features
J. Bonsall, C. Gaffney, T. Sparrow, I. Armit

163 Nieszawa: a forgotten medieval city in Poland discovered with the use of remote sensing techniques
M. Jaworski, M. Pisz, S. Rzeźnik, W. Stępień, P. Wroniecki

165 Elements of the Bronze Age Landscape of “Cikola water system” Preliminary results
L. Reményi

168 Non-invasive surveys of the Roman fort Apsaros (Gonio) in Georgia
K. Misiwicz, W. Młatkowski, M. Bogacki

171 High-resolution multi-channel GPR survey of the Roman town Flavia Solva in Austria
W. Neubauer, S. Floery, I. Trinks, A. Hinterleitner, K. Löcker, S. Seren

**Processing and Visualization**

173 Damping Correction for GPR Signals by using Belief Propagation
F. Chishima, H. Kamei, T. Hashimoto, T. Ako

176 Rapid processing of GPR time slices for data visualisation during field acquisition
N. Linford

179 Improvements in the identification of archaeological buried features in QuickBird imagery and in ground magnetic data
M. Ciminale, M. Noviello, L. Amoruso, V. De Pasquale

182 Understanding hyperspectral detection dynamics: Analysis and characterisation of archaeological vegetation marks using continuum removed reflectance spectroscopy
D. Stott, A.R. Beck, D. Boyd, A.G. Cohn

185 Edge Mappers Applied to Resistance and Magnetic Mapping Data
A. Stampolidis, G.N. Tsokas

187 Update on the simulation of astronomical aspects of Middle Neolithic circular ditch systems
G. Zotti, W. Neubauer

Friday May 31st 2013

**GIS and Prospection**

190 Aerial Imagery and Interpretation of Roman Viminacium
N. Mrđić, M. Korać, S. Golubović

191 Wadi Abu Dom Itinerary (W.A.D.I.) – An Archaeological Road Survey Project in Sudan
T. Karberg

193 Walk the line. Implementation of regional-scale GIS-based field survey method for agricultural areas in Hungary
M. Stibrányi, G. Mesterházy

195 Using barcode, tablet PC and smartphone technology for archaeological field surveys
J. Coolen, M. Fera, M. Doneus, E. Grillmayer

197 From point to polygon – investigating a Roman rural landscape
N. Doneus

200 Object versus Pixel — Classification Techniques for high resolution airborne remote sensing data
M. Pregesbauer
Integrated Prospection Approaches – Part 2

Chairman: Tomasz Herbich

203 Integrated Archaeological and Geophysical investigations to study the area of S. Giovanni in Laterano basilica (Rome, Italy)
I. Haynes, P. Liverani, S. Piro, D. Zamuner

206 Assessing the condition of the rock mass over the Eupalinian tunnel in Samos (Greece) by the use of multiple geophysical techniques

210 Aerial Photography and Geophysical Prospection in Northern Caucasus – New Results from the Kislovodsk Basin
D.S. Korobov, V.Y. Malashev, J.W.E. Fassbinder

214 Archaeological analysis of the Rijckholt Neolithic flint mines surface area
J. Orbons, J. Deeben, J.W. de Kort

215 Integrating geophysics and geoarchaeology for a heritage management toolkit in wetlands: Shapwick Heath case study
C.J. Bunting, N.P. Branch, S. Robinson, P. Johnes, L. Jones

218 Large scale archaeological prospection: Case studies from three years of fieldwork in Norway
L. Gustavsen, C. Tonning, V. Lia, E. Nau, K. Paasche, T. Gansum, R. Filzwieser

Integrated Prospection Approaches – Part 3

Chairman: Geert Verhoeven

220 An integrated geophysical approach to Stonehenge
C. Gaffney, V. Gaffney, W. Neubauer, E. Baldwin, K. Löcker

222 Searching for the unknown unknowns. ALS data for archaeological feature detection in forested areas of Sopron Mountains – a work in progress
M. Stibranyi, G. Padányi-Gulyás

223 Integrated prospection approaches for archaeological sites in the alluvial plain of "Cilicia Pedias"
R. Rosenbauer, S. Erasmi, M. Novak, S. Rutishauser

225 Combined non-invasive survey of the Gdansk Bay with the use of sonar scanning and magnetic measurements
W. Matkowski, K. Misiewicz, W. Ossowski

227 The many scales of Rural Life in Protohistoric Italy
K.L. Armstrong, M. van Leusen, W. de Neef

230 Within the round barrows of Stonehenge landscape: Surveying topographically complex monuments with GPR
E. Baldwin

Archaeological Feedback

Chairman: Mark Schurr

233 Spatial organisation of Persepolis (Fars, Iran): preliminary results from a large grid study carried out with a CS60 conductivity and susceptibility meter
S. Gondet, J. Thiesson

237 Geophysical prospection of Roman villae rusticae in the Bavarian part of Noricum
L. Kühne, R. Linck, J.W.E. Fassbinder

T. Herbich

246 The application of remote sensing technology and geophysical methods in the topographic survey of the Late Iron Age fortifications in Transdanubia
Z. Czajlik, B. Holl, G. Király

248 Enclosures and their context in the late Urn field culture up to the early La Tene period in the administrative district Landshut (Lower Bavaria, Germany) – potential of magnetic prospection
M. Geelhaar, J.W.E. Fassbinder, R. Linck

252 The anomaly that wasn't there - on the visibility of archaeological prospection anomalies and their causative structures in the subsurface
S. Seren, I. Trinks, A. Hinterleitner, W. Neubauer
Poster and Multimedia Session – Archaeological Feedback

255 Geophysical prospecting integrated in archaeological restitution: The case of Bayeux (Normandy, France)
J. Thiesson, G. Schutz, C.E. Sauvin, A. Dhemaïed, Q. Vitale, S. Pasquet, S. Buvat, L. Bodet, R. Guérin

258 An Example of Magnetometer Survey from Central Anatolia, Turkey
M.A. Berge, M.G. Drahor, C. Öztürk

261 Magnetic research of an ancient village and its water resources: the case of Philoteris/Medinet Watfa in Oasis Fayum, Egypt
T. Herbich, C. Roemer

265 The layout of the vici in Dacia: archaeology and geophysics
F. Marcu, D. Isac, G. Cupcea

266 Confrontation of Geophysical Surveying and Archaeological Excavations in the southern quarters of Aregenus (Vieux- Calvados, France): results for research and site management
K. Jardel, M. Dabas

267 Digging the Dirt: Ground Truthing, Feedback and Statistics from Irish Magnetometer Surveys
J. Bonsall, C. Gaffney, I. Armit

270 Evaluating and interpreting multi-receiver EMI data with three-dimensional excavation data
P. De Smedt, W. De Clercq, J. De Reu, D. Herremans, M. Van Meirvenne

272 Roman Villas in the Vicinity of Viminacium
N. Mrđić, M. Jovičić, M. Korač

274 When, where, how? The archaeological need for greater predictability for archaeological prospection
P. Karlsson

275 Prospection of the Eastern Part of the Ager of Viminacium
S. Redžić, I. Danković

276 Geophysical Prospections in Piammiano (Bomarzo, Italy): interpreting an Etruscan and Roman settlement
C. Joncheray, M. Dabas, V. Jolivet

277 Mapping Prehistoric Wooden Trackways using Time Domain Induced Polarisation
J. Bonsall, R. Fry, F. Pope-Carter, C. Gaffney, I. Armit

278 Geophysical prospecting regarding the fortification systems in Chalcolithic Cucuteni culture from Romania
A. Asandulesei, V. Cottiuga

280 Changes of structure and extent of Early Medieval strongholds in Central Bohemia from geophysical surveys of sites
R. Krivanek

285 Hala Sultan Tekke revisited – archaeological GPR prospection on Cyprus 1980 and 2010/12
I. Trinks, P. Fischer, K. Lücker, S. Flöry

288 Duggleby Howe: From prospection to digital stratigraphic documentation
E. Nau, W. Neubauer, A. Gibson, M. Kucera, P. Schneidhofer, R. Totschnig

292 Rediscovering a Cistercian convent: Field work training of HTW Berlin students on Marienwerder peninsula (Seehausen, Uckermark, Germany)
C. Meyer, F. Biermann, T. Schenk

293 Magnetic prospection on the archaeological site of Qasr Şhemamok (autonomous region of Kurdistan, Irak): First results
P. Kessouri, Q. Vital

297 To the problem of settlement structure identification in magnetic data
P. Milo

301 The Puig Ciutat Project. Multi-method Geophysics and archaeological feedback to map a destruction
R. Sala, E. Garcia

Poster and Multimedia Session – GIS and Prospection

304 ArchaeoLandscapes Europe - A Network for Archaeological Prospection
A.G. Postluschny, C.R. Musson

307 Applying geoinformatics in modern age archaeology
A. Juhász
309 Study of deserted cultivated landscape in the area of Czech Switzerland
L. Starkova

312 Gamla Uppsala revisited - archaeological excavation and prospection in Old Uppsala
A. Biwall, L. Beronius, I. Trinks

314 Archaeology and Geographical Information Systems in the context of Spatial Planning
G. Branco, L. Rocha

317 APIS – Archaeological Prospection-Information-System
M. Doneus, U. Fornwagner, C. Kiedl

319 A multi-method examination of an American Revolutionary War era house fort in New York State’s Mohawk Valley
M. Rogers, S. Stull

321 Predictive modelling of unknown road and path networks
W. Vletter

324 GIS-based modelling of the dynamic development of central places
K. Tolnai

**Poster and Multimedia Session – Processing and Visualization**

327 Texture Segmentation as a First Step Towards Archaeological Object Detection in High-Resolution Satellite Images of the Silvretta Alps
K. Lambers, I. Zingman

330 Digital photogrammetry in microgravity data processing: A case study from St. Catherine’s monastery, Slovakia
J. Panisova, M. Fraštia, T. Wunderlich, R. Paštka

334 FlashRes64: A Fully-Three-Dimensional Electrical Imaging Instrument?
F. Pope-Carter, R. Fry, C. Gaffney, A. Schmidt

337 Historical maps and archaeological prospection
I. Kuzma, M. Bartík, M. Bielich, E. Blázová

341 Circular Ditch Formations on the Remote Sensing Image
I. Kuzma

348 Using airborne LIDAR to map field systems - methods, challenges and examples
R. Hesse

349 Relocation of a partly excavated Roman Villa Rustica by geophysical prospection
W. Neubauer, S. Flöry, T. Zitz, E. Nau, K. Löcker

350 Automatic classification of near surface magnetic anomalies – an object oriented approach
M. Pregesbauer, I. Trinks, W. Neubauer

354 Elements for the construction of 3D-models for archaeoastronomical analysis
G. Zotti, W. Neubauer

357 Towards the Rapid Documentation of the Tanum Landscape: Developing an integrated workflow using 3D laser scanning and image based modelling techniques
M. Kacera, C. Sevara, I. Trinks, J. Ling

359 Following the Timeline – Airborne Imaging Spectroscopy to map vegetation features and crop marks
M. Pregesbauer

361 Transdimensional Inversion Methods for Electrical Resistivity Tomography in Archaeology
B. Thierry Hildenbrand, K. Gallagher, F. Nicollin, D. Jordan

363 Evaluation of different software packages for ALS filtering
A.M. Klimeczyk, M. Doneus, C. Briese, N. Pfeifer

**Poster and Multimedia Session – Technical Aspects**

367 Thermometry as an additional geophysical method in archaeological prospection
R. Krivanek
370 Experiments with Trapezoidal Arrays for Archaeological Earth Resistance Survey
J.C. Harris, C. Gaffney

371 In Pursuit of the Past
S. Hay, S. Kay, A. James, M. Berry

372 Products of New Czech Hypsography Based on ALS Technology and Their Potential for Archaeological Research: Evaluation of LIDAR Data and Interpolation to DTMs
L. Holata, J. Plzák

375 Revealing the invisible: evaluation of modern remote sensing techniques in the light of archaeological prospection
M. Ruš

378 An unified magnetic data acquisition software for motorized geophysical prospection
V. Sandici, D. Scherzer, A. Hinterleitner, I. Trinks, W. Neubauer

380 Towards an automated georeferencing and orthorectification of archaeological aerial photographs
M. Doneus, G. Verhoeven, W. Karel, C. Briese, N. Pfeifer, C. Ressl

383 Aerial Photogrammetry – from the kite to the oktokopter. Experience in using kite, balloons and oktokopter for photographic and photogrammetric archaeological documentation
M. Bogacki

384 Removing the influence of vehicles used in motorized magnetic prospection systems
A. Hinterleitner, W. Neubauer, I. Trinks

Saturday June 1st 2013

Interpretation and Presentation – Part 1
Chairman: Mahmut G. Drahor

387 From radio waves to landscape archaeology
P.M. Barone, C. Ferrara, E. Pettinelli

390 Electrical Resistivity Tomography as a Tool to Reconstruct the Palaeoenvironment of Neolithic Sites
N. Papadopoulos, A. Sarris, W. Parkinson, A. Gyucha, R. Yerkes

394 Understanding the settlement pattern of Angkor (Cambodia) in the light of ALS data
K.J. Hanus, D. Evans, R. Fletcher

395 Bipartite Division in a Middle Woodland "Moundbuilder" Society: Evidence from Archaeological Prospection
M. Schurr

397 Inversion and analysis approaches of SQUID gradiometer data measured on large archaeological areas

400 The utilisation of remote sensing data for the investigation of Iron Age sites and landscapes – a case study from Austria
M.D. Fera

Interpretation and Presentation – Part 2
Chairman: Jörg Fassbinder

403 Whose fort? Investigating the remains of an enigmatic enclosure in southern Nepal
A. Schmidt, M. Manuel, R.A.E. Coningham

406 Auto-extraction techniques and cultural heritage databases – assessing the need, evaluating applicability and looking to the future
D. Cowley, V. De Laet, R. Bennett

409 Electrical resistivity of stone built structures. Approaches to technique, interpretation and modelling
P. Brengel, D. Jordan, B. Thierry-Hildenbrand

Integrated Prospection Approaches – Part 4
Chairman: Jörg Fassbinder

412 Magnetic Survey in Dahaneh-e Gholaman, Sistan-Iran
K. Mohammadkhani
The impact of environmental dynamics on multiple sensor responses over archaeological features, examples from the DART project
D. Boddice, R. Fry, A.R. Beck, C. Gaffney, N. Metje, A. Schmidt

The Integrated Approaches on GPR and Magnetic Gradiometer Surveys from Some Archaeological Sites in Anatolia, Turkey
M.G. Drahor, C. Öztürk, B. Ortan

Sunday June 2nd 2013

Presentation of the Landscape Prospection Project "ArchPro Carnuntum"

The discovery of a gladiatorial school at Carnuntum
W. Neubauer, S. Seren, A. Hinterleitner, M. Doneus, K. Lücker, I. Trinks, E. Nau, M. Pregesbauer

Radiometric calibration of ALS data for archaeological interpretation
C. Briese, M. Doneus, G. Verhoeven

Integrating multi-receiver EMI measurements to characterize the soil-landscape around the school of gladiators, Carnuntum
T. Saey, M. Van Meirvenne, I. Trinks, P. De Smedt, G. Verhoeven, W. Neubauer

Interpreting GPR data in GIS: animation tools and 3D visualization applied to the archaeological interpretation of Roman structures
V. Poscetti

Urban reflections in the landscape: Evaluation of urban spatial analysis in the light of archaeological prospection
T. Tencer

The amphitheatre of Carnuntum — Towards a complete 3D model using airborne structure from motion and dense image matching
G. Verhoeven, R. Docter

Digital Conservation of the Military Amphitheatre in Bad Deutsch Altenburg in the Province of Lower Austria
M. Pregesbauer, B. Stummer, F. Humer

List of authors