



Archaeological Prospection 2013

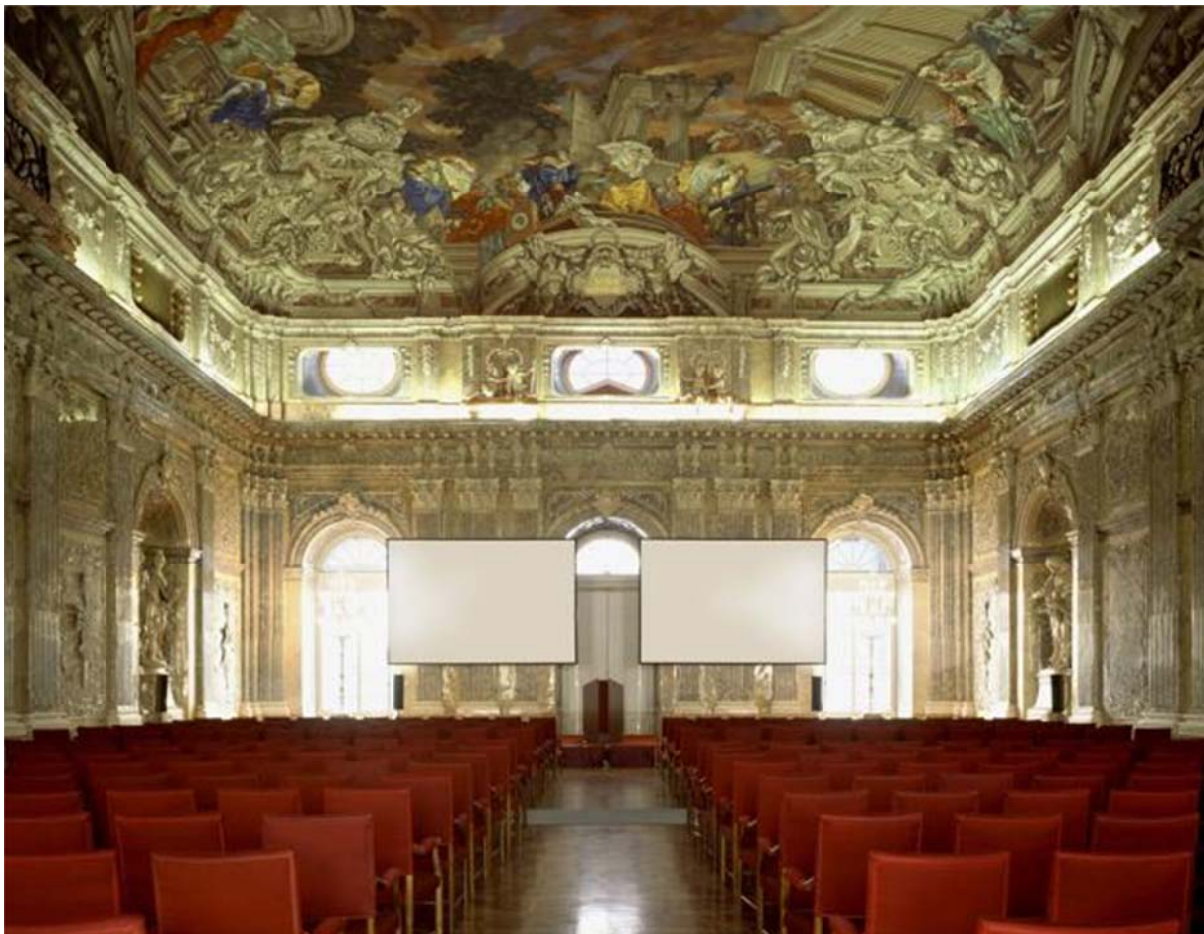
10th International Conference on Archaeological Prospection

Austrian Academy of Sciences, Vienna

May 29th – June 2nd 2013

[http:// ap2013.univie.ac.at](http://ap2013.univie.ac.at)

Venue:



Austrian Academy of Sciences, Ignaz-Seipl-Platz 2
1010 Vienna, Austria
<http://www.oeaw.ac.at>



Wednesday May 29th 2013

09:00-11:30	Registration and Welcome Drinks
11:30-12:00	Opening of the Conference Welcome notes by Wolfgang Neubauer – Director - LBI ArchPro Claudia Lingner – General Manager - Ludwig Boltzmann Gesellschaft <u>Irwin Scollar</u>
12:00-12:30	Virtual Keynotes by Pioneers of Archaeological Prospection Martin Aitken Irwin Scollar Albert Hesse Mike Tite John C. Belshé Yasushi Nishimura Otto Braasch Helmut Becker
12:30-14:00	Lunch Break (list of recommended restaurants)
14:00-15:30	Opening Session - Part 1
15:30-16:00	Coffee Break
16:00-17:30	Opening Session – Part 2
17:30-18:00	Aperitif
18:00-21:00	Poster & Multimedia Session 1
18:00-21:00	Welcome Party

SCIENTIFIC PROGRAMME
BREAKS
SOCIAL EVENTS
EXCURSIONS
ADDITIONAL ACTIVITIES



Wednesday May 29th 2013

14:00-15:30 Overview of Archaeological Prospection - Part 1 (10 min presentation, 5 min discussion) Chairman: Armin Schmidt

- 14:00-14:15 J.W.E. Fassbinder, A. Belinskiy, R. Linck, S. Reinhold
**Prehistoric ring monuments in the Northern Caucasus (Russia):
Remote sensing, large-scale magnetic prospecting and first test excavations**
- 14:15-14:30 P. Milo
**Neolithic settlement at Těšetice-Kyjovice (Czech Republic):
Magnetic survey and archaeological excavations**
- 14:30-14:45 N. Linford, P. Linford, A. Payne, E. Carpenter, D. Grady, H. Winton, P. Horne
**Chasing aeroplanes: developing a vehicle towed caesium magnetometer array to
complement aerial photography over three recently surveyed sites in the U.K.**
- 14:45-15:00 O. Risbøl, C. Briese, M. Doneus, A. Nesbakken
**Identifying and documenting landscape changes by the use of multi-temporal historical
aerial photos and ALS-generated DEMs – an automated and retrospective approach**
- 15:00-15:15 G. Verhoeven, M. Doneus, C. Atzberger, M. Wess, M. Rus, M. Pregesbauer, C. Briese
New approaches for archaeological feature extraction of airborne imaging spectroscopy data
- 15:15-15:30 M. Doneus, N. Doneus, C. Briese, M. Pregesbauer, G. Mandlbürger, I. Miholjek, F. Daim
Measuring the topography of submerged archaeological sites from the air

15:30-16:00 Coffee Break

16:00-17:30 Overview of Archaeological Prospection - Part 2 (10 min presentation, 5 min discussion) Chairman: Armin Schmidt

- 16:00-16:15 V. Gaffney, C. Gaffney, P. Garwood, W. Neubauer, H. Chapman, K. Löcker, E. Baldwin
**Stonehenge Hidden Landscapes Project:
Geophysical investigation and landscape mapping of the Stonehenge World Heritage Site**
- 16:15-16:30 N. Studnicka, C. Briese, G. Verhoeven, M. Kucera, G. Zach, C. Ressler
**The Roman Heidendor as study object to compare mobile laser scanning data and multi-view
image reconstruction**
- 16:30-16:45 P. De Smedt, T. Saey, M. Van Meirvenne
An electromagnetic induction survey of the Stonehenge landscape
- 16:45-17:00 I. Trinks, L. Larsson, M. Gabler, E. Nau, W. Neubauer, A. Klimczyk, B. Söderberg, H. Thorén
Large-scale archaeological prospection of the Iron Age settlement site Uppåkra - Sweden
- 17:00-17:15 M. Doneus, E. Draganits, T. Gansum
**The Viking-age royal burial site of Borre (Norway):
LIDAR-based landscape reconstruction and harbour location at an uplifting coastal area**
- 17:15-17:30 I. Trinks, W. Neubauer, E. Nau, M. Gabler, M. Wallner, A. Hinterleitner, A. Biwall, M. Doneus,
M. Pregesbauer
Archaeological Prospection of the UNESCO World Cultural Heritage site Birka-Hovgården

17:30-18:00 Aperitif

18:00-21:00 Poster & Multimedia Session 1

18:00-21:00 Welcome Party



Poster & Multimedia Presentations - Integrated Prospection Approaches

R. Linck, S. Buckreuss, S. Seren

Determination of the applicability of high-resolution X-Band satellite radar for the archaeological prospection by a comparison with a ground-based survey

E. Smagur, K.J. Hanus, A. Buszek

Miran and the Silk Road. Integrated prospection at the ancient oasis-city in Xinjiang, China

A. Frinculeasa, M.N. Frinculeasa, C. David

Non-Invasive Archaeological Research Carried Out Recently In Northern Muntenia, Romania

T. Wunderlich, B. Majchczack, E.S. Mauritsen, M. Segschneider, H. Stümpel, W. Rabbel

Settlements out of nowhere – Extensive archaeological evidence from combined geophysical prospection and aerial photography

M. Jaworski, P. Wroniecki, M. Pisz, A. Tomas, J. Pisz

Remote sensing techniques in the study of civil settlement near Novae (Moesia Inferior)

J. John, O. Chvojka

Airborne laser scanning (ALS) as a tool for mapping of burial mounds in the area of Hemera forest (Czech Republic)

J. John, P. Menšík, J. Hložek, L. Čapek, P. Baierl

Application of non-destructive archaeological methods in research of prehistoric and medieval monuments in the South Bohemia

T. Becker, N. Buthmann, B. Zickgraf

Managing and protecting the World Heritage Site of the Roman Limes – The Contribution of geophysical surveying

R. Linck, J.W.E. Fassbinder, F. Becker

Integrated geophysical prospection of a late-medieval monastery in Lower Bavaria

L. Rocha, G. Branco

Environmental impact assessment: archaeological prospecting

G. Ranieri, D. Schirru, A. Trogu, A. Saba

Towards an integration of laser scanner survey and geophysical prospection: an example from the Nuragic Site of Monte 'E Nuxi- Esterzili (Sardinia, Italy)

D. Wilken, T. Wunderlich, W. Rabbel, H. Stümpel, R. Pašteka

Integrated geophysical survey at Katarinka Monastery (Slovakia)

M.A. Mohamed-Ali, F.A. Omer, A.H. Abou, M.H. Elkabashi

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

A. Viberg, J. Schultzén, A. Wikström

Reconstructing the Spatial Layout of the Church of St. Lawrence, Sigtuna, Sweden using Ground-penetrating Radar and Photogrammetry

W. Raczkowski, M. Bogacki, W. Małkowski, K. Misiewicz

Sławsko – the prince's worthy seat? Non-invasive archaeological surveys



Y.J. Choj, D. Jordan, T. Wagner, T. Mahr

What can soil marks tell us? Understanding the influence of buried archaeological remains on the spectral properties of surface soils

J. Koch, J.W.E. Fassbinder, R. Linck, K. Eisele, M.M. Rind

The Neolithic Flint mine of Arnhofen in Lower Bavaria, Southern Germany: Aerial Archaeology, Magnetometry and Ground-penetrating radar Surveys

J.W.E. Fassbinder, J. Koch, M. Teufer

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

S. Hay, S. Kay, R. Cascino, A. James, M. Berry

An Integrated geophysical survey at Peltuinum (Abruzzo, Italy). A case study in GPR processing

M. Dabas, P. De Smedt, E. Garcia, D. Goodman, C. Meyer, G. Morelli, A. Novo, G. de Prado, A. Schmidt, R. Tamba

First MAC international workshop on archaeological geophysics

P. Copeland, D. d'Ayala, G. Earl, J. Miles, E. Richley, V. Stephenson, K. Strutt

The Parnassus Project: Archaeology and Engineering collaboration on ERT use in building conservation

R.B. Salisbury

Integrating archaeo-geochemical methods for intra-site archaeological prospection

M. Kucera

Prospecting Kreuttal/Austria - erosion and accumulation

P. Schneidhofer, R. Cannell

Large scale, high resolution archaeological geophysical prospection: A source for palaeoenvironmental data

K. Kastowsky-Priglinger, R. Schreg, I. Trinks, E. Nau, K. Löcker, W. Neubauer

Long term integrated archaeological prospection on the Stubersheimer Alb - Giving meaning to a marginal landscape

J. Kainz

Magnetic modelling at site and landscape scale

F. Boschi, E. Giorgi, M. Silani

Archaeological prospections in the northern Marche region (Italy): new aerial and geophysical surveys between Misa and Cesano valleys

K. Löcker, E. Baldwin, W. Neubauer, V. Gaffney, C. Gaffney, A. Hinterleitner, P. Garwood, I. Trinks, M. Wallner

The Stonehenge Hidden Landscape Project - Data acquisition, processing, interpretation

K. Dirix, P. Muechez, P. Degryse, B. Mušič, J. Poblome

Soil geochemistry as a tool aiding geophysical prospection on an archaeological site in Sagalassos (SW-Turkey)

A.N. Mazurkevich, M. Kulkova, J.W.E. Fassbinder, D. Hookk

Spatial analysis of magnetic susceptibility and geochemical data on Neolithic sites in Serteya, Northwest of Russia

J. Verhegge, T. Missiaen, P. Crombé

Developing an integrated prospection approach for the archaeological evaluation of alluvium covered late Pleistocene-early Holocene landscapes: first results from Doelpolder Noord (Beveren, Belgium)



R. Tamba, R. Sala, P. De Smedt, E. Iriarte, E. Garcia, M. Van Meirvenne

Taking into account the depth variations of the bedrock for the interpretation of the surveys achieved in the eastern are of the site of Puig Ciutat, Barcelona

W. De Clercg, P. De Smedt, J. De Reu, K. Degroote, J. Dumolyn, D. Herremans, A. Ramandt, T. Saey, B. Stichelbaut, M. Van Meirvenne

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

B. Wirtz, P. Pelgas, E. Miejac

Applications of acoustic, magnetometric and topographic submarine devices for a method of underwater archaeological research

J. Eger

Ancient traffic routes in the Sudanese western desert – An archaeological remote sensing

C. Cuenca-García, R.E. Jones, A.J. Hall, T. Poller

From the Air to the Atomic Level of a Ditch: Integrating Geophysical and Geochemical Methods at the Prehistoric Cropmark Site at Forteviot (Perthshire, Scotland)

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

Poster & Multimedia Presentations - Interpretation and Presentation

M. Kucukdemirci

The Ground Penetrating Radar Survey On Heraion Teichos Acropolis (Tekirdag-Turkey)

R. Linck, R. Bielfeldt, J.W.E. Fassbinder, J. Koch, M. Kucukdemirci

3D-GPR prospection in Pompeiopolis – a metropolis in the Roman Paphlagonia

J. Tirpák, M. Bielich

The geophysical research of the Dome of St. Elizabeth and the Chapel of St. Michal in Kosice

J.W.E. Fassbinder, R. Linck, C. Franken

Karabalgasun the Uigurian Capital in the Orchon valley, Mongolia. Preliminary results and first tests with magnetometer prospection

K. Kastowsky-Priglinger

Preliminary results on the developement of a comprehensive interpretation work flow. The Case Study Kleinrötz/Austria

C. Sevara

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

K. Kastowsky-Priglinger

Why? How? When? – A closer look on Archaeological Prospection for Kids at the Kinder-Universities in Raabs an der Thaya 2011 and Vienna 2012



Thursday May 30th 2013

09:00-10:30 Integrated Prospection Approaches - Part 1 (10 min presentation, 5 min discussion) Chairman: Neil Linfood

- 09:00-09:15 A. Hüser, C. Schweitzer
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
- 09:15-09:30 J. Bonsall, C. Gaffney, T. Sparrow, I. Armit
Multi Depth Electromagnetic Surveys in Ireland: Increasing our chances of detecting archaeological features
- 09:30-09:45 M. Jaworski, M. Pisz, S. Rzeźnik, W. Stępień, P. Wroniecki
Nieszawa: a forgotten medieval city in Poland discovered with the use of remote sensing techniques
- 09:45-10:00 L. Reményi
Elements of the Bronze Age Landscape of "Cikola water system" Preliminary results
- 10:00-10:15 K. Misiewicz, W. Małkowski, M. Bogacki
Non-invasive surveys of the Roman fort Apsaros (Gonio) in Georgia
- 10:15-10:30 W. Neubauer, S. Floery, I. Trinks, A. Hinterleitner, K. Löcker, S. Seren
High-resolution multi-channel GPR survey of the Roman town Flavia Solva in Austria

10:30-11:00 Coffee Break

11:00-12:30 Processing and Visualization (10 min presentation, 5 min discussion) Chairman: Chris Gaffney

- 11:00-11:15 F. Chishima, H. Kamei, T. Hashimoto, T. Ako
Damping Correction for GPR Signals by using Belief Propagation
- 11:15-11:30 N. Linfood
Rapid processing of GPR time slices for data visualisation during field acquisition
- 11:30-11:45 M. Ciminale, M. Noviello, L. Amoruso, V. De Pasquale
Improvements in the identification of archaeological buried features in QuickBird imagery and in ground magnetic data
- 11:45-12:00 D. Stott, A.R. Beck, D. Boyd, A.G. Cohn
Understanding hyperspectral detection dynamics: Analysis and characterisation of archaeological vegetation marks using continuum removed reflectance spectroscopy
- 12:00-12:15 A. Stampolidis, G.N. Tsokas
Edge Mappers Applied to Resistance and Magnetic Mapping Data
- 12:15-12:30 G. Zotti, W. Neubauer
Update on the simulation of astronomical aspects of Middle Neolithic circular ditch systems

12:30-15:00 Lunch Break (list of recommended restaurants)

15:00-23:00 Excursion to the Weinviertel (Lower Austria)

- 15:00 Departure by Bus from Vienna - Schwedenplatz
- 16:00-18:00 Tour through the Heldenberg Museum featuring an open air exhibition space with the reconstruction of a Neolithic village and the full-size model of a Neolithic circular ditch system (<http://derheldenberg.at>)
- 18:00 Departure by Bus from Heldenberg
- 19:30-23:00 Heurigenbuffet at the Reichensteinhof in Poydorf
- 24:00 Arrival in Vienna - Schwedenplatz

This excursion is included in the Full Participant's registration fee. An accompanying person or a Student Participant can join at an extra cost of € 20.

ATTENTION: All participants of this excursion have to subscribe at the registration desk on Wednesday!



Friday May 31st 2013

09:00-10:30 GIS and prospection (10 min presentation, 5 min discussion)

Chairman: Eamonn Baldwin

- 09:00-09:15 N. Mrđić, M. Korać, S. Golubović
Aerial Imagery and Interpretation of Roman Viminacium
- 09:15-09:30 T. Karberg
Wadi Abu Dom Itinerary (W.A.D.I.) - An Archaeological Road Survey Project in Sudan
- 09:30-09:45 M. Stibrányi, G. Mesterházy
Walk the line. Implementation of regional-scale GIS-based field survey method for agricultural areas in Hungary
- 09:45-10:00 J. Coolen, M. Fera, M. Doneus, E. Grillmayer
Using barcode, tablet PC and smartphone technology for archaeological field surveys
- 10:00-10:15 N. Doneus
From point to polygon - investigating a Roman rural landscape
- 10:15-10:30 M. Pregešbauer
Object versus Pixel – Classification Techniques for high resolution airborne remote sensing data

10:30-11:00 Coffee Break

11:00-12:30 Integrated Prospection Approaches - Part 2 (10 min presentation, 5 min discussion)

Chairman: Tomasz Herbich

- 11:00-11:15 I. Haynes, P. Liverani, S. Piro, D. Zamuner
Integrated Archaeological and Geophysical investigations to study the area of S. Giovanni in Laterano basilica (Rome, Italy)
- 11:15-11:30 G.N. Tsokas, P.I. Tsourlos, C.B. Papazachos, J.-H. Kim, G. Vargemezis
Assessing the condition of the rock mass over the Eupalinian tunnel in Samos (Greece) by the use of multiple geophysical techniques
- 11:30-11:45 D.S. Korobov, V.Y. Malashev, J.W.E. Fassbinder
Aerial Photography and Geophysical Prospection in Northern Caucasus – New Results from the Kislovodsk Basin
- 11:45-12:00 J. Orbons, J. Deeben, J.W. de Kort
Archaeological analysis of the Rijckholt Neolithic flint mines surface area
- 12:00-12:15 C.J. Bunting, N.P. Branch, S. Robinson, P. Johnes, L. Jones
Integrating geophysics and geoarchaeology for a heritage management toolkit in wetlands: Shapwick Heath case study
- 12:15-12:30 L. Gustavsen, C. Tønning, V. Lia, E. Nau, K. Paasche, T. Gansum, R. Filzwieser
Large scale archaeological prospection: Case studies from three years of fieldwork in Norway

12:30-14:00 Lunch Break (list of recommended restaurants)



14:00-15:30 Integrated Prospection Approaches - Part 3 (10 min presentation, 5 min discussion)
Chairman: Geert Verhoeven

- 14:00-14:15 C. Gaffney, V. Gaffney, W. Neubauer, E. Baldwin, K. Löcker
An integrated geophysical approach to Stonehenge
- 14:15-14:30 M. Stibrányi, G. Padányi-Gulyás
Searching for the unknown unknowns. ALS data for archaeological feature detection in forested areas of Sopron Mountains – a work in progress
- 14:30-14:45 R. Rosenbauer, S. Erasmí, M. Novak, S. Rutishauser
Integrated prospection approaches for archaeological sites in the alluvial plain of "Cilicia Pedias"
- 14:45-15:00 W. Małkowski, K. Misiewicz, W. Ossowski
Combined non-invasive survey of the Gdansk Bay with the use of sonar scanning and magnetic measurements
- 15:00-15:15 K.L. Armstrong, M. van Leusen, W. de Neef
The many scales of Rural Life in Protohistoric Italy
- 15:15-15:30 E. Baldwin
Within the round barrows of Stonehenge landscape: Surveying topographically complex monuments with GPR

15:30-16:00 Coffee Break

16:00-17:30 Archaeological Feedback (10 min presentation, 5 min discussion)
Chairman: Mark Schurr

- 16:00-16:15 S. Gondet, J. Thiesson
Spatial organisation of Persepolis (Fars, Iran): preliminary results from a large grid study carried out with a CS60 conductivity and susceptibility meter
- 16:15-16:30 L. Kühne, R. Linck, J.W.E. Fassbinder
Geophysical prospection of Roman villae rusticae in the Bavarian part of Noricum
- 16:30-16:45 T. Herbich
Geophysical surveying in Egypt: periodic report for 2011-2012
- 16:45-17:00 Z. Czajlik, B. Holl, G. Király
The application of remote sensing technology and geophysical methods in the topographic survey of the Late Iron Age fortifications in Transdanubia
- 17:00-17:15 M. Geelhaar, J.W.E. Fassbinder, R. Linck
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
- 17:15-17:30 S. Seren, I. Trinks, A. Hinterleitner, W. Neubauer
The anomaly that wasn't there - on the visibility of archaeological prospection anomalies and their causative structures in the subsurface

17:30-18:00 Aperitif

18:00-19:00 Annual Meeting of the Int. Soc. for Archaeological Prospection (members and aspirants)

18:00-21:00 Poster & Multimedia Session 2

18:00-21:00 Researcher's Pub (operated by LBI ArchPro, fully licensed)

20:00 Announcement of the ISAP Poster Award

20:58 Last orders



Poster & Multimedia Presentations - Archaeological Feedback

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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



Poster & Multimedia Presentations- GIS and Prospection

A.G. Posluschny, C.R. Musson

ArchaeoLandscapes Europe - A Network for Archaeological Prospection

A. Juhász

Applying geoinformatics in modern age archaeology

L. Starkova

Study of deserted cultivated landscape in the area of Czech Switzerland

A. Biwall, L. Beronius, I. Trinks

Gamla Uppsala revisited - archaeological excavation and prospection in Old Uppsala

G. Branco, L. Rocha

Archaeology and Geographical Information Systems in the context of Spatial Planning

M. Doneus, U. Fornwagner, C. Kiedl

APIS – Archaeological Prospection-Information-System

M. Rogers, S. Stull

A multi-method examination of an American Revolutionary War era house fort in New York State's Mohawk Valley

W. Vletter

Predictive modelling of unknown road and path networks

K. Tolnai

GIS-based modelling of the dynamic development of central places

Poster & Multimedia Presentations - Processing and Visualization

K. Lambers, I. Zingman

Texture Segmentation as a First Step Towards Archaeological Object Detection in High-Resolution Satellite Images of the Silvretta Alps

J. Panisova, M. Fraštia, T. Wunderlich, R. Paštka

Digital photogrammetry in microgravity data processing: A case study from St. Catherine's monastery, Slovakia

F. Pope-Carter, R. Fry, C. Gaffney, A. Schmidt

FlashRes64: A Fully-Three-Dimensional Electrical Imaging Instrument?

I. Kuzma, M. Bartík, M. Bielich, E. Blažova

Historical maps and archaeological prospection

I. Kuzma

Circular Ditch Formations on the Remote Sensing Image

R. Hesse

Using airborne LIDAR to map field systems - methods, challenges and examples

W. Neubauer, S. Flöry, T. Zitz, E. Nau, K. Löcker

Relocation of a partly excavated Roman Villa Rustica by geophysical prospection

M. Pregesbauer, I. Trinks, W. Neubauer

Automatic classification of near surface magnetic anomalies – an object oriented approach

G. Zotti, W. Neubauer

Elements for the construction of 3D-models for archaeoastronomical analysis



M. Kucera, C. Sevara, I. Trinks, J. Ling

Toward the Rapid Documentation of the Tanum Landscape: Developing an integrated workflow using 3D laser scanning and image based modelling techniques

M. Pregesbauer

Following the Timeline - Airborne Imaging Spectroscopy to map vegetation features and crop marks

B. Thierry Hildenbrand, K. Gallagher, F. Nicollin, D. Jordan

Transdimensional Inversion Methods for Electrical Resistivity Tomography in Archaeology

A.M. Klimczyk, M. Doneus, C. Briese, N. Pfeifer

Evaluation of different software packages for ALS filtering

Poster & Multimedia Presentations - Technical Aspects

R. Krivanek

Thermometry as an additional geophysical method in archaeological prospection

J.C. Harris, C. Gaffney

Experiments with Trapezoidal Arrays for Archaeological Earth Resistance Survey

S. Hay, S. Kay, A. James, M. Berry

In Pursuit of the Past

L. Holata, J. Plzák

Products of New Czech Hypsography Based on ALS Technology and Their Potential for Archaeological Research: Evaluation of LIDAR Datas and Interpolation to DTMs

M. Ruš

Revealing the invisible: evaluation of modern remote sensing techniques in the light of archaeological prospection

V. Sandici, D. Scherzer, A. Hinterleitner, I. Trinks, W. Neubauer

An unified magnetic data acquisition software for motorized geophysical prospection

M. Doneus, G. Verhoeven, W. Karel, C. Briese, N. Pfeifer, C. Ressler

Towards an automated georeferencing and orthorectification of archaeological aerial photographs

A. Hinterleitner, W. Neubauer, I. Trinks

Removing the influence of vehicles used in motorized magnetic prospection systems



Saturday June 1st 2013

09:00-10:30 Interpretation and Presentation - Part 1 (10 min presentation, 5 min discussion) Chairman: Mahmut G. Drahor

- 09:00-09:15 P.M. Barone, C. Ferrara, E. Pettinelli
From radio waves to landscape archaeology
- 09:15-09:30 N. Papadopoulos, A. Sarris, W. Parkinson, A. Gyucha, R. Yerkes
Electrical Resistivity Tomography as a Tool to Reconstruct the Palaeoenvironment of Neolithic Sites
- 09:30-09:45 K.J. Hanus, D. Evans, R. Fletcher
Understanding the settlement pattern of Angkor (Cambodia) in the light of ALS data
- 09:45-10:00 M. Schurr
Bipartite Division in a Middle Woodland "Moundbuilder" Society: Evidence from Archaeological Prospection
- 10:00-10:15 M. Schneider, S. Linzen, J. Bemann, E. Pohl, K. Hartung, H.-P. Baumgartl, R. Stolz, T. Schueler, S. Dunkel, H.-G. Meyer
Inversion and analysis approaches of SQUID gradiometer data measured on large archaeological areas
- 10:15-10:30 M.D. Fera
The utilisation of remote sensing data for the investigation of Iron Age sites and landscapes – a case study from Austria

10:30-11:00 Coffee Break

11:00-11:45 Interpretation and Presentation - Part 2 (10 min presentation, 5 min discussion) Chairman: Jörg Faßbinder

- 11:00-11:15 A. Schmidt, M. Manuel, R.A.E. Coningham
Who's fort? Investigating the remains of an enigmatic enclosure in southern Nepal
- 11:15-11:30 D. Cowley, V. De Laet, R. Bennett
Auto-extraction techniques and cultural heritage databases – assessing the need, evaluating applicability and looking to the future
- 11:30-11:45 P. Brengel, D. Jordan, B. Thierry-Hildenbrand
Electrical resistivity of stone built structures. Approaches to technique, interpretation and modelling

11:45-12:30 Integrated prospection approaches - Part 4 (10 min presentation, 5 min discussion) Chairman: Jörg Faßbinder

- 11:45-12:00 K. Mohammadkhani
Magnetic survey in Dahaneh-e Gholaman, Sistan-Iran
- 12:00-12:15 D. Boddice, R. Fry, A.R. Beck, C. Gaffney, N. Metje, A. Schmidt
The impact of environmental dynamics on multiple sensor responses over archaeological features, examples from the DART project
- 12:15-12:30 M.G. Drahor, C. Öztürk, B. Ortan
The Integrated Approaches on GPR and Magnetic Gradiometer Surveys from Some Archaeological Sites in Anatolia, Turkey

12:30-12:45 Ludwig Boltzmann Best Paper Award



Sunday June 2nd 2013

Full-day excursion to Carnuntum (guided tour, wine tasting, banquet, entertainment)

08:00	Departure Excursion Carnuntum: Vienna - Schwedenplatz
09:00	Arrival Carnuntum
09:00-11:00	Guided tour through the new Open-air Museum and Archaeological Park Carnuntum http://www.carnuntum.co.at Aperitif in the <i>taberna</i> or <i>thermae</i> of the archaeological Open-air Museum
11:00	Departure by bus to Kulturfabrik in Hainburg http://www.kulturfabrik-hainburg.at
11:30-12:30	Presentation of the Landscape Prospection Project "ArchPro Carnuntum"

W. Neubauer, S. Seren, A. Hinterleitner, M. Doneus, K. Löcker, I. Trinks, E. Nau, M. Pregesbauer, M. Kucera, G. Verhoeven

The discovery of a gladiatorial school at Carnuntum

C. Briese, M. Doneus, G. Verhoeven

Radiometric calibration of ALS data for archaeological Interpretation

T. Saey, M. Van Meirvenne, I. Trinks, P. De Smedt, G. Verhoeven, W. Neubauer

Integrating multi-receiver EMI measurements to characterize the soil-landscape around the school of gladiators, Carnuntum

V. Poscetti

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

T. Tencer

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

G. Verhoeven, R. Docter

The amphitheatre of Carnuntum – Towards a complete 3D model using airborne structure from motion and dense image matching

M. Pregesbauer, B. Stummer, F. Humer

Digital Conservation of the Military Amphitheatre in Bad Deutsch Altenburg in the Province of Lower Austria

12:30	Reception by the Federal Government of Lower Austria
14:30	First return possibility by bus to Vienna via Vienna International Airport
16:00	Last return possibility by bus to Vienna via Vienna International Airport
17:30	Latest arrival in Vienna - Schwedenplatz

This excursion is included in the Full Participant's registration fee. An accompanying person or a Student Participant can join at an extra cost of € 30.

ATTENTION: All participants of this excursion have to subscribe at the registration desk on Wednesday!



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