Program 2014

CHNT 19
Conference on Cultural Heritage and New Technologies
November 3-5, 2014 | Vienna, Austria

Monday |November 03

08:00 – 16:00 | Registration

Opening | Wappensaal

09:00 – 09:15 | **Opening |** Wolfgang H. BÖRNER, Stadtarchäologie Wien, Austria

09:15 – 10:00 | **Keynote Speech |** Marc GRELLERT | Jochen SCHMID, Germany: Oriental Adventures – The excavations at Tell Halaf - Syria

Session | Wappensaal

Complex Archaeology meets Complex Technology | Chairs: Wolfgang BÖRNER, Austria | Benjamin DUCKE, Germany | Benno RIDDERHOF, The Netherlands

10:00 – 10:20 | Laure SALIGNY | Xavier RODIER, France: Study of the urban dynamics by a new computer application

10:20 – 10:40 | Irmela HERZOG, Germany: Analysing settlement processes in the Bergisches Land, Germany

10:40 – 11:00 | Rowin VAN LANEN, The Netherlands: Surveying past movement: how large-scale landscape archaeological research can aid to the reconstruction, analyses and prediction of Roman and early-medieval infrastructure in the Netherlands

11:00 – 11:20 | COFFEE BREAK

11:20 – 11:40 | Marco TOCCHI, Italy: Old town centers documentation for their conservation and security

11:40 – 12:00 | Jörg RÄTHER | Eicke SIEGLOFF, Germany: archaeoDox – Information management from the dig into the archive

12:00 – 12:20 | Carlo BATTINI, Italy: Augmented Reality applied to the archaeological excavations

12:20 – 14:00 | LUNCH

14:00 – 14:20 | F. GABELLONE et alii, Italy: Methodological Approaches and ICT Solutions for Smart Cities

14:20 – 14:40 | Joseph SCHULDENREIN, USA: Geoarchaeological Methods in Urban Archaeology: A Case Study from Manhattan Island

14:40 – 15:00 | Jaap Evert ABRAHAMSE | Menne KOSIAN, The Netherlands: The Atlas of Urbanization in the Netherlands. - A millennium of spatial developments.

15:00 – 15:20 | Giulia DIONISIO | Anna Margherita JASINK, Italy: Usable but not suitable: traditional versus new technological display. The Aegean Collection in the National Archaeological Museum of Florence

15:20 – 15:40 | COFFEE BREAK

15:40 – 16:00 | Daniel PLETINCKX | Carlotta CAPURRO | Dries NOLLET, Belgium: Reconstruction of the interior of the Saint Salvator abbey of Ename around 1290

16:00 – 16:20 | Josef GSPURNING | Susanne LAMM | Patrick MARKO | Wolfgang SULZER | Susanne TIEFENGRABER, Austria: Geospatial Technologies for Investigating Roman Settlement Structures in the Noric-Pannonian Borderland - Selected Aspects of a New Research Project

16:20 – 16:40 | S. G. MALATESTA | V. CIRILLI, Italy: The HyperColumna Project

Morning Sessions | ROOM 319

Rubble, Ruins and Reading, specific approaches in analysis – Trying to let the remains telling the story |Chairs: Stefano COLUMBU | Giorgio VERDIANI, Italy

10:00 – 10:20 |Mirco PUCCI, Italy: Photogrammetry of the Microcosms: investigating the landscape of single stones to create bases of knowledge

10:20 – 10:40 | Stefano COLUMBU | Giorgio VERDIANI, Italy: The church of St. Saturnino in Cagliari, Sardinia, reading the levels of history through the use of digital survey and the petrophysical study of materials

10:40 – 11:00 | Maria Teresa BARTOLI, Italy: The unusual shape of Palazzo Vecchio in Florence

11:00 – 11:20 | COFFEE BREAK

11:20 – 11:40 | Stefano COLUMBU | Antonio CAZZANI | Alessandro RUGGIERI, Italy: Relations between static-structural aspects, construction phases and building materials of San Saturnino Basilica (Cagliari, Italy)

11:40 – 12:00 | Alessandro MERLO | Andrea ALIPERTA, Italy: The fortified settlement of Bivignano. Computer graphic tools in analysis and its representation

12:00 – 12:20 | Alberto VIRDIS | Rossana MARTORELLI | Lorenzo TANZINI | Fabio PINNA | Stefano COLUMBU | Marco MARCHI | Fabio SITZIA | Marcella PALOMBA, Italy: Romanesque and territory. The construction materials of Sardinian medieval churches: new approaches to the valorization, conservation and restoration

12:20 – 12:40 | Stefano COLUMBU | Marco MARCHI | Marcella PALOMBA | Fabio SITZIA, Italy: Alteration of stone materials on Sardinian medieval monuments: physical, chemical and petrographic analysis for their restoration and preservation

12:40 – 14:00 | LUNCH

Afternoon Sessions | ROOM 319

14:00 – 14:20 | Piotr KUROCZYŃSKI | Oliver HAUCK, Germany: Digital Reconstruction of Cultural Heritage - A matter of documentation

14:20 – 14:40 | Luca CIPRIANI | Filippo FANTINI | Ravenna's Archaeological Heritage: technique integration for accurate documentation through 3D digital models

14:40 – 15:00 | Robert SZEMZÖ, Slovakia: Documentation of historical approaches used for creation of medieval polychrome sculptures by means of three-dimensional reconstruction.

15:00 – 15:20 | Discussion

15:20 – 15:40 | COFFEE BREAK

The State of 3D Modeling of Cultural Heritage in the Age of Augmented Reality, Xbox Kinect, UAVs, and the Oculus Rift | Chairs: Gabriele GUIDI, Italy | Bernard FRISCHER, USA

15:40 – 16:00 | Perla GIANNI-FALVO, Italy: Augmented Reality in museums: Design and evaluation with cognitive technologies

16:00 – 16:20 | Adele MAGNELLI, Italy: Use of Oculus Rift for an immersive "time-shift" experience in the Medieval Ages

16:20 – 16:40 | Pablo RODRÍGUEZ-NOVARRO | Teresa GIL PIQUERAS, Spain: 3D-MUSEUM:Prehistoric movable Art. From the Palaeolithic to the Metal Age

16:40 – 17:00 | Takehiko NAGAKURA | Woong-ki SUNG, USA: Multirama: Augmenting Architecture in Exhibitions

17:00 – 17:20 | Gabriele GUIDI | Bernard FRISCHER, Italy: USA / Photomodeling vs. traditional 3D data capture of cultural heritage artifacts

Evening Event
19:30 | Opening – Wiener Planungswerkstatt

Tuesday | November 04
08:00 – 16:00 | Registration

Morning Sessions | Wappensaal

08:40 – 09:20 | Poster Presentation | Chair: Peter DORNINGER, Austria
Category: New Technologies
Irmela HERZOG, Germany | Alden YÉPEZ , Ecuador: Analyzing Patterns of Movement and of settlement in the East-Andean Mountains of Ecuador
Giada CERRI | Federica CORSINI, Italy: Digital reconstruction and analysis of the Nari's monument in Florence, a Bartolomeo Ammannati's statue from the St. Annunziata church to the Bargello national museum
Giovanni ANZANI | Francesco ALGOSTINO | Elenonora CECCONI | Francesco TIOLI, Italy: Digital 3D print and reverse engineering for Cultural Heritage, the experience of the LMA (Architectural Modelling Laboratory) of the Didalabs system in Florence
Gerald RAAB, Austria: Aerial survey around Hamadab (Northsudan)
Tomoyuki USAMI, Japan: GIS-based study of the distribution of jar-burials in the Middle Yayoi period in Northern Kyushu (Japan)
Maureen L. KING | Colleen M. BECK, USA: The Archaeology of Atmospheric Nuclear Test Sites
Herwig ZEINER | Silvia RUSSEGGER, Austria: NFC - in the Use for Culture 2.0
G. Di GIACOMO | G. SCARDOZZI, Italy: A GIScloud system for the knowledge and data sharing and management: Urban Archaeology and Smart City solutions for Culture and Turism in Lecce (Apulia, Italy).
Francesca RAFANELLI, Italy: The complex of St. Daniel in Göreme, Cappadocia
Giorgio VERDIANI | Anna FRASCARI, Italy: The Mausoleums of the ancient Caria, guidelines for a digital approach
Morteza JAHANGARDI | Naser Hafezi MOGHADDAS | Omran GRAZHIAN, Iran: Ground Penetrating Radar Prospection at Tepe Damghani , Iran
Paolo FORMAGLINI | Filippo GIANSANTI, Italy: The "Banuelo" at the ancient entrance of Granada, survey and analysis in a fully digital approach

Archaeological Field Survey, Prospection, Interpretation and Analysis | Chair: Willem BEEX, The Netherlands
09:20 – 09:40 | Willem BEEX, The Netherlands | Introduction for the Session
09:40 – 10:00 | Marco TOCCHI, Italy: Transformations and evolution, the old town centers in the historical maps
10:00 – 10:20 | Joris COOLEN, Austria: Scatters, cropmarks and anomalies: integrating field survey data in the Kreuttal area, Lower Austria
10:20 – 10:40 | Francesco Uliano SCELZA, Italy: The GIS of the territory of Poseidonia-Paestum
10:40 – 11:00 | COFFEE BREAK
11:00 – 11:20 | Marilena COZZOLINO | Federica FASANO, Italy: The Latin Colony of Aesernia: integrated researches related to urban geo-archaeology realized through a combined use of historical sources, archaeological survey, 3D photogrammetric reconstructions and non-invasive geophysical prospections
11:20 – 11:40 | Kasper HANUS, Austria | Emilia SMAGUR, Poland: Filling the gap. Investigation of moated sites in NW Cambodia
11:40 – 12:00 | Marilena COZZOLINO | Elisa DI GIOVANNI, Italy: Geophysical Prospection applied to the historical Centers

12:20 – 14:00 | LUNCH

Morning Sessions | ROOM 319

08:40 – 09:20 | Poster Presentation | Chair: Christian BRIESE, Austria
Category: Cultural Heritage
Sergiy TARANENKO | Sergiy ROMANCHUK, Ukraine: Reconstructing the ancient landscape in Kyiv Podil: issues of methodology
Andrea ALIPERTA | Carlo GIRA, Italy: The Curch of Meryem Ana in Göreme, Cappadocia. New life in prototyping and augmented reality
Tatiana PIGNATALE | Andrea LEONARDI, Italy: Intangible Heritage, fairy tales and myths, structure for a research about the underground popular imagination and its link to architecture and archaeology
Jacopo BARDI, Italy: Diagnosis of the theatrical Cultural Heritage in Florence
Ruth Cebrián JORGE | Natalia Rubio CAMARILLO, Spain: Analysis of the distortion model of traditional architecture and its effect on Gran Canarias heritage
Georg GANGL, Austria: Observational seismology on the 1895-Lubljana earthquake: Historical reports, "unstructured" data, macroseismic classification, and practical application
Hans-Werner BARTZ | Aline DEICKE | Anna NEOVESKY, Germany: PBF Online - Digitizing the project "Prähistorische Bronzefunde"
Andrea SICHI | Carolina ROSINI, Italy: S. Johannes in Jerusalem Church, in Poggibonsi. A disclosed mystery?
Vladimir IONESOV | Vera KURINA, Russia: The things and people: to new creative communication of urban landscape
Mariam Ibrahim ALMULLA, Qatar: A Narrative of Collecting and Interpreting Cultural Materials
Ivo TOPALILOV | Nina TOLEVA | Georgi KAFELOV, Bulgaria: The Episcopal Basilica in Philippopolis, Thrace (modern Plovdiv, Bulgaria): Challenge of Socialization and Exponation
Luca BOMBARDIERI | Anna Margherita JASINK | Panaiotis KRUKLIDIS, Italy: The Gallery and the Town: the Florentine Bronze Age Aegean and Cypriote Collections beyond the Museum walls
Stéphane GIRAUDEAU | Valentina FANTINI | Jacopo DE PAOLA, Italy: "Abandoned Art Nouveau as a research tool: comparing two different methods"
Silvana Maria GRILLO, Italy | Walter PROCHASKA, Austria: The Marble Inventory of the Early Christian Basilica San Saturnino/Cagliari-Sardinia

Processing old/old fashioned excavations – a useful struggle for information? | Chairs: Ingeborg GAISBAUER / Christoph OELLERER, Austria
09:20 – 09:40 | David BIBBY, Germany: Ludwig Leiner's Last Laugh
09:40 – 10:00 | Arvi HAAK, Estland: In the middle of a small town: reanalysis of excavations next to the market place of Viljandi, South Estonia
10:00 – 10:20 | Christoph BLESL | Ingeborg GAISBAUER | Doris SCHÖN, Austria: Reset and Start – The reanalysis and new presentation of an old excavation in Vienna's historical and topographical core
10:20 – 10:40 | Visa IMMONEN, Finland: Extracting information through reconstruction: Two case studies of old urban excavations in Turku, Finland
10:40 – 11:00 | COFFEE BREAK

11:00 – 11:20 | Liisa SEPPÄNEN, Finland: Is the output worth of input? Estimating the value of past excavations for new information
11:20 – 11:40 | Benno RIDDERHOF | J. BAZELMANS, The Netherlands: Dorestad: The Final word. (And they said it could not be done)
11:40 – 12:00 | Stephen STEAD | Jonathan WHITSON-CLOUD | Dominic OLDMAN, UK: Exploring inferences, time and space in the annotation of museum catalogues: The Sloane virtual exhibition experience
12:00 – 12:20 | Discussion

12:20 – 14:00 | LUNCH

Afternoon Round Table Discussion | ROOM 319

14:00 – 15:20 | **New Perspective in authenticity, restoration and characterization of cultural heritage by using new Archaeometric Techniques |**
        Chairs: Recep KARADAĞ | Ali Akın AKYOL | Mahmut AYDIN, Turkey
        Ali Akın AKYOL, Turkey: Laboratorial based Archaeometrical Studies in Turkey
        Mahmut AYDIN, Turkey: New perspective in determination authenticity of Cultural Heritage by using New Archaeometric Techniques
        Viviana NICOLETTI, Italy | Nadire Mine YAR, Turkey: Why non-destructive methods used on artifacts? Key Study: Ink of Qur'an ŞE 80
        Recep KARADAG, Turkey: Non-destructive Micro-analytical Methods for the Conservation of Textiles from Cultural Heritage

15:20 – 15:40 | COFFEE BREAK

Advanced Archaeological Trainings – HandsOn Workshops

14:00 – 17:00 | **Geodata processing with free software: gvSIG CE and the GRASS GIS plug-in** | Organiser: Benjamin DUCKE, Germany
        [Location: Wappensaal]

14:00 – 17:00 | **Cultural Heritage Geospatial Infrastructures – a fundament for collaboration and exchange** | Organiser: Markus JOBST, Austria
        [Meeting point: 13:45 Registration Desk | Location: University Vienna]

14:00 – 17:00 | **Survey2gis: a flexible, open source solution for transferring survey data into GIS** | Organiser: David BIBBY, Germany
        [Meeting point: 13:45 Registration Desk | Location: MA 21, Felderstraße]

14:00 – 17:00 | **Digital recording of features, monuments and excavations** | Organiser: Stefan HOHMANN, Germany | Willem BEEX, The Netherlands | Giorgio VERDIANI,
        Italy | in collaboration with kubit GesmbH
        [Location: Steinsaal II]

14:00 – 17:00 | **Poster 2.0 – Reinventing poster design** | Organiser: Bert BROUWENSTIJN | Benno RIDDERHOF, The Netherlands
        [Meeting point: 13:45 Registration Desk | Location: University Vienna]

15:40 – 17:00 | **Intrasis Workshop** | Organiser: Karin LUND, Intrasis, Sweden
        [Location: Room 319]

14:00 – 17:00 | **3D Scanning in hard-to-reach places** | Organiser: Bernhard MAYRHOFER, VirtuMake | Olga ZINCHENKO, Artec Group, Luxembourg
        [Location: Room 317]

Guided Tours

14:00 | Guided Tour "Römermuseum" [Meeting point – Registration desk]
14:00 | Guided Tour "Kunsthistorisches Museum" [Meeting point – Registration desk]
18:00 | Guided Tour "City Hall" [Meeting point – Registration desk]

Evening Event

19:30 | Mayor Cocktail Reception – Rathauskeller

Program 2014

Wednesday | November 05

08:00 – 14:00 | Registration

Sessions | Wappensaal

"Analysing the Dead" – Archaeological anthropological and forensic recording and analysis of human/animal remains | Chairs: David BIBBY, Germany | Ann DEGRAEVE, Belgium | Karen WILTSCHKE-SCHROTTA, Austria | Raphaël PANHUYSEN, The Netherlands

09:00 – 09:20 | Amanda MURPHY, UK: Lost, But Not Alone: Burial records as a means of determining absolute taphonomic loss by age in cemetery populations

09:20 – 09:40 | Emilie PEREZ, France: Ages of children and burial rites: Evolution of child graves organization in medieval cemeteries

09:40 – 10:00 | Raphael PANHUYSEN, The Netherlands: United in a grave, analysing multiple burials in Merovingian Maastricht

10:00 – 10:20 | Gilbert SOETERS, The Netherlands: "They shoot horses, don't they?"

10:20 – 10:40 | COFFEE BREAK

10:40 – 11:00 | Claudia RADU / Norbert SZEREDAI / Demjen ANDREA / Oana PONTA, Romania / Applying a biocultural approach in the analysis of the Late Medieval/Early Modern population from Gheorgheni (Romania)

11:00 – 11:20 | Jay CARVER, UK: The charter house 25, a window to the Black Death

11:20 – 11:40 | Benno RIDDERHOF, The Netherlands: Custer and the Battle of Little Bighorn, American iconography versus archaeology

11:40 – 12:00 | John P. ZEITLER, Germany: Crisscross orientation in a late medieval and early modern cemetery in Nürnberg: facts and interpretations

12:00 – 14:00 | LUNCH

14:00 – 14:20 | Claudia Maria MELISCH | Peter RAUXLOH | Natasha POWERS | Ines GARLISCH, Germany | UK: Medieval space and population

14:20 – 14:40 | Filipa NETO | Ana Lema SEABRA, Portugal: What to do with data: Portuguese information system for anthropological and funerary data

14:40 – 15:00 | COFFEE BREAK

15:00 – 15:20 | Cristina BARROSO CRUZ | Filipa NETO | Ana Lema SEABRA, Portugal: Piecing together terminology in bioarcheology: defining concepts

15:20 – 15:40 | Ilse TIMPERMAN, UK: Early Niche Graves in the Turfan Basin (c. 300 BCE–300 CE): A Critical Approach to Data Mining

15:40 – 16:00 |Petra RAJIĆ ŠIKANJIĆ | Daria LOŽNJAK DIZDAR, Croatia | Creating the database of Urnfield burials from northern Croatia

Session | ROOM 319

UAV4urban_archaeology: Recording archaeological sites and monuments with UAVs | Chairs: Marco BLOCK-BERLITZ | Benjamin DUCKE, Germany | Peter DORNINGER | Christian BRIESE, Austria

09:00 – 09:20 | Christof SCHUBERT, Germany: Multicopters - an everyday documentation tool for archaeologists?

09:20 – 09:40 | Marco BLOCK-BERLITZ | Benjamin DUCKE, Germany: My drone is cheaper than yours: the possibilites of UAVs and image-based 3D reconstruction using consumer grade hardware

09:40 – 10:00 | Christian BRIESE | Martin PFENNIGBAUER | Michael DONEUS | Andreas ULLRICH, Austria: Radiometric Information from UAS-Borne Close Range Lidar

10:00 – 10:20 | Toni SCHIEMANK | Benjamin GEHMLICH | Marco BLOCK-BERLITZ, Germany: The autonomous, flying archaeologists of the future

10:20 – 10:40 | COFFEE BREAK

10:40 – 11:00 | Christian SEITZ, Germany: From ArchEye to ArchEyeAutomatic

11:00 – 11:20 | Peter DORNINGER | Dominik KRAWCZYK | Clemens NOTHEGGER, Austria: Scan-Copter - UAV-Based High-Resolution LiDAR

NEWBIES | Chairs: Michael DONEUS | Benjamin STANGL, Austria

11:20 – 11:40 | Ronny WEßLING, Austria: Large- scale high-resolution landscape modelling of coastal areas with Kite Aerial Photography

11:40 – 12:00 | Angela MANCUSO | Andrea PASQUALI, Italy: Different ways lead to different results? Experiences on modern photogrammetric surveying of Cultural Heritage subjects

12:00 – 14:00 | LUNCH

14:00 – 14:20 | Lukasz MISZK, Poland: Forming 3D Database for Classical Sites on The Example of Nea Paphos (Cyprus).

14:20 – 14:40 | Jonas BRUSCHKE | Markus WACKER, Germany: A new digital documentation tool for the 3D-reconstruction process

14:40 – 15:00 | COFFEE BREAK

15:00 – 15:20 | Dominique VAN DOKKUM | Benno RIDDERHOF, The Netherlands: Italian city-states a data warehouse for the true story of sex, murder and mayhem in 15th century Italy

15:20 – 15:40 | Karolina ROSIŃSKA-BALIK, Poland: From Sketch to Virtual Reality. The Case Study of Ancient Brewery from Tell el-Farkha, Egypt

15:40 – 16:00 | Nermine Mahmoud SHOUKRY, Egypt: Documentation and Preservation of historical Cairo Cultural Heritage and its relation to urban tourism through the use of New Technologies

16:00 – 17:00 | Video Session | Chair: 7reasons, Austria

Stefan REUSS | Piotr KUROCZYŃSKI, Germany: Virtual reconstruction of baroque palaces in former East Prussia

Andrea BRAGHIROLI, Italy: Gladiators combat

Marco BLOCK-BERLITZ |Reinhard JUNG | Marco PACCIARELLI, Germany, Austria, Italy: UAV-based topographic surveying at Punta di Zambrone (Italy)

Carlotta CAPURRO | Dries NOLLET | Daniel PLETINCKX, Belgium: Virtual reconstruction of the Egmont castle of Zottegem, Belgium

Bernard FRISCHER | Paolo ALBÈRI AUBER | Orietta ROSSINI, USA: "The Obelisk, Meridian and Ara Pacis of Augustus"

Dries NOLLET | Carlotta CAPURRO | Daniel PLETINCKX, Belgium: Virtex: a tangible interface for museum objects and monuments

Ellen VREENEGOOR | ECHO tekst&presentative, The Netherlands: De Maas uitgediept (The Meuse in depth) | Language: Dutch

LANDESAMT FÜR DENKMALPFLEGE IM REGIERUNGSPRÄSIDIUM STUTTGART, Germany: "Entwicklung der Heuneburg" (Development of the Heuneburg) | Language: German

Chloé FROMMER, USA: Zimbabwe's National Dombashawa Rainmaking Cave Monument

Christian REINBACHER | Manuel HOFER | Christian MOSTEGEL | Craig ALEXANDER |Gert HOLLER | Thomas HÖLL | Axel PINZ, Austria, UK: 3D Scanning in the 3D-Pitoti Project

Daniel PLETINCKX | Dries NOLLET | Carlotta CAPURRO, Belgium: The virtual reconstruction of Ename

Daniel PLETINCKX | Dries NOLLET, Belgium: The virtual reconstruction of the WW I Battery Aachen

Evening Event
19:30 | Informal Farewell Evening (Restaurant GösserBräu – Ottakring)