

FROM SPACE TO PLACE - FULL PROGRAM

SCHEDULE: Monday 4 DECEMBER

9.00 Registration

9.45 Welcome

R. de Mattei

Vicepresidente CNR - Vice-President of CNR

Maria Mautone

Direttore Dipartimento Patrimonio Culturale del CNR - Director of CNR Cultural Heritage Dep.

Salvatore Garraffo

Direttore dell'Istituto per le Tecnologie Applicate ai Beni Culturali del CNR

Roma – Director of CNR Institute for Technologies Applied to Cultural Heritage -Rome

10.00 Introduction

S. Campana, M. Forte

10.20 Key Note Speaker

M. HERNANDEZ, UNESCO

UNESCO partnership with space institutions to improve conservation of cultural heritage

10.40 Key Note Speaker

R. FRANCOVICH, University of Siena

Mapping cultural heritage: the role of remote sensing in the perspective of a more widely integrated approach to archaeological landscapes studies and conservation

11.00 Key Note Speaker

W.SATURNO, University of New Hampshire

Sensing a Future for the Past

11.20 - 11.30 COFFEE BREAK

11.30 SESSION 1 - Satellite Remote Sensing Archaeology

Chair - M.Hernandez

11.30

AURDAL L., EIKVIL L., KOREN H., LOSKA A.

Semi-automatic search for cultural heritage sites in satellite images

11.50

DEROIN J-P., TEREYGEOL F., BENOIT P., AL-THARI M., AL-GANAD I., HECKES J., PELI A., PILLAULT S., FLORSCH N.

Archaeological remote sensing in Yemen, the Jabali test site. From large-scale survey to field investigation

12.10

LASAPONARA R., MASINI N.

Performance evaluation of data fusion and edge detection algorithms for the detection of archaeological features by using satellite Quickbird data

12.30

MASINI N., LASAPONARA R.

Evaluation of the spectral capability of QuickBird imagery for the detection of archaeological buried remains

12.50

NIE Y., DAI J., ZHANG X.

The Use of DMC Small Satellite Data in the Investigation of Chinese Great Wall

13.10 - 14.30 BREAK

14.30

PARCAK S.

Satellite survey and coring in reconstructing ancient landscapes in the Nile Floodplain and at Tell-el Amarna (Middle Egypt): a multifaceted approach

14.50

WELLER E. T.

Satellites, Survey, and Settlement: the Late Classic Maya Utilization of Bajos (Seasonal Swamps) at Tikal and Yaxha, Guatemala

15.10 SESSION 2 - Aerial Archaeology: vertical and oblique photography

Chair - W.Raczkowski

15.10

MUSSON C.

The flying patchwork quilt: aerial responses across Europe

15.30

CAPRASECCA A.

Air Photo interpretation and the study of Medieval settlements in Maremma (central Italy)

15.50

COWLEY D.

The emerging landscape of East Lothian, Scotland. Mapping, analysis and presentation

16.10 - 16.20 COFFEE BREAK

16.20

MUSSON C., DRIVER T., PERT T.

Air photo applications in Wales, UK. Exploration, landscape analysis, conservation and public presentation

16.40

MACLEOD K.H.J.

Developments in aerial photographic rectification and mapping at RCAHMS

17.00

BEWLEY R., MUSSON C.

'European Landscapes – Past, Present And Future'. A Culture 2000 project: realities, objectives and future prospects

17.20

SÁNCHEZ PARDO J. C., ORTEGA I. F.

Aerial archaeology in Spain: historiography and expectations

17.40

VERHOEVEN G., LOENDERS J.

A remote controlled infrared eye in the sky

18.00

VERMEULEN F.

Integrating aerial photography for the study of Roman towns in Italy

SCHEDULE: Tuesday 5 DECEMBER

8.40 Key Note Speaker

A. GRUN, ETH Zurigo

From Space to Place with Image-Based methods for 3D Modeling.

9.10 Key Note Speaker

B. BEWLEY, English Heritage

Aerial Archaeology in Europe – Ghetto or centre stage?

9.40 SESSION 3 - Aerial Archaeology: airborne scanning

Chair - A.Addison

9.40

BOFINGER J., KURZ S., SCHMIDT S.

Ancient maps – modern data sets: different investigative techniques in the landscape of the early Iron Age princely hill fort Heuneburg, Baden-Württemberg, Germany

10.00

CHALLIS K., HOWARD J.A., GEAREY B., SMITH D.

Analysis of the effectiveness of airborne LiDAR intensity for predicting organic preservation potential of waterlogged deposits

10.20

DONEUS M.

LiDAR Supported Archaeological Prospection in forested areas

10.40

RISBOL O., GJERTSEN A.K., SKARE K.

Airborne laser scanning of cultural remains in forests - some preliminary results from a Norwegian project.

11.00

ROWLANDS A., SARRIS A., BELL J.

Airborne multi sensor remote sensing of exposed and subsurface archaeological remains at Itanos and Roussolakkos, Crete

11.20 - 11.30 COFFEE BREAK

11.30

SITTLER B.

The potential of LiDAR in assessing elements of cultural heritage hidden under woodland canopies. Possibilities and limits in detecting microrelief structures for archaeological surveys

11.50

TRAVIGLIA A.

Archaeological usability of Hyperspectral images: successes and failures of image processing techniques

12.10

CRUTCHLEY S.

Using LiDAR in archaeological contexts: The English Heritage experience and lessons learned

12.30 Key Note Speaker

D. POWLESLAND, Landscape Research Centre West-Heslerton

Redefining past landscapes: 30 years of remote sensing in the Vale of Pickering

13.00 - 14.10 BREAK

14.10 SESSION 4 - Ground-based Remote Sensing Archaeology

Chair - P.R.Williams

14.10

FOWLER J.

Geophysics and the archaeology of an ethnic cleansing: the case of Grand-Pre National Historic Site of Canada

14.30

GRØN O.

Hyper spectral, multi spectral and geo-chemical perspectives on the prehistoric cultural landscape – or – revealing the chemical truth about prehistoric settlement and infrastructure

14.50

KEAY S., MILLETT M., HAY S.

Teano, Teanum Sidicinum. A geophysical urban landscape survey

15.10

MAGGIDIS C., STAMOS A.

Detecting Mycenae: systematic Remote Sensing Survey in the 'Lower city'- towards the discovery of the Mycenaean settlement outside the citadel

15.30

YUGSI F., EISENBEISS H., REMONDINO F., WINKLER W.

Multi-temporal monitoring of landslides in archaeological mountainous environments using optical remote sensing imagery

15.50

PIRO S., CAPANNA M.C.

Multimethodological approach to study the Archaeological Park of Maalga Karthago (Tunis) using Remote Sensing Archaeology and HR Geophysical Prospecting Methods

16.10 Special Event

P. CELLINI, SEAT

PagineGialle VISUAL: a new platform for Culture and History on the World Wide Web

16.40 - 16.50 COFFEE BREAK

16.50 SESSION 5 - Integrated Technologies for Remote Sensing Archaeology

Chair - J.Fowler

16.50

BELVEDERE O., PAPA M. A., CERAULO A., LAURO D., BURGIO A.

GIS and Web Mapping of S. Leonardo valley and Alesa hinterland

17.10

FORTE M., PESCARIN S., PIETRONI E., RUFA C.

Multuser interaction in an archaeological landscape: the Flaminia project

17.30

RACZKOWSKI W.

Towards integration: two prospection methods and some thoughts

17.50
STRUTT K.
Tidgrove Warren Farm Archaeological Project: an integrated approach to the study of an archaeological landscape in Hampshire, UK

18.10
WILLIAMS P. R.
Roads Scholarship: A Methodological Approach to the Role of Trade in the Tiwanaku State of the South American Andes

SCHEDULE: Wednesday 6 DECEMBER

9.00 Key Note Speaker
L. LANCASTER, ECAI
Helping the Learner: Who, When What, Where

9.30 SESSION 6 - Interpreting Landscapes and settlement pattern reconstruction

Chair - P.Mozzi

9.30
PIZZIOLO G., SARTI L.
Exploring the archaeological landscape through a local perspective: spaces and places in the prehistory of the Florentine plain

9.50
GOKHALE P, BAPAT S.
Reconstructing the ancient republics (Janapadas) of the Indian sub-continent

10.10
HALKON P.
Reconstruction an Iron Age and Roman landscape – new research in the Foulness Valley, East Yorkshire, England

10.30
MADRY S., SEIBEL S.
Validation Results from the North Carolina Department of Transportation Archaeological Predictive Modeling Project

10.30 - 10.40 COFFEE BREAK

Chair - R.Kadobayashi

10.40
CIAMPALINI R., MANZO A., PERLINGIERI C., SERNICOLA L.
Landscape Archaeology and GIS for the Archaeological Heritage Management of the Aksum Region, Ethiopia

11.00
VICENT J., ORMEÑO S., MARTINEZ-NAVARRETE M. I., DELGADO J.
The Kargaly Project: modelling Bronze Age landscapes in the steppe

11.20
NIKNAMI K. A., REZA SAEEDI M.
A (GIS)-based predictive mapping to locate prehistoric site locations in the Gamasiab River Basin, Western Iran

11.40
OŠTIR K., NUNINGER L.
Paleorelief detection and paleo DEM modelling – a case of study in eastern Languedoc (France)

12.00
UOTILA K., HUVILA I., VILKUNA A., LEMPIÄINEN T., GRÖNLUND E., ETTERBERG P.
A Simulation of the Medieval Environment and Its Change around Medieval castles – special case in Finland

12.20
CAMPANA S., PIRO S., FELICI C., GHISLENI M.
From space to place: Aiali project (Tuscany – Italy)

12.40 - 14.30 BREAK

14.30 SESSION 7 - Environment Analysis for Remote Sensing Archaeology

Chair - S.Madry

14.30
FERRARESE F., MOZZI P., VERONESE F., CERVO F.,
High resolution DTM for the geomorphological and geoarcheological analysis of the city of Padua (Italy)

14.50
DE SILVA M.
The fourth dimension of places: landscape as an environmental and cultural dynamic process in the maremma regional park

15.10
MARCOLONGO B., NINFO A., SIMONE M.
"Valle d'Agredo": a paleoenvironmental and geoarcheological reconstruction based on remote sensing images analysis

15.30
PIOVAN S., PERETTO R., MOZZI P.
Palaeohydrography and ancient settlements in the Adige river plain, between Rovigo and Adria (Italy)

15.50
RUKIEH M.
Ancient Man in Palmyra (Syria) and the paleogeographical situation in quaternary

16.10 - 16.30 COFFEE BREAK

16.30 SESSION 8 - 3D visualization of place and landscapes

Chair - M.Doneus

16.30
BITELLI G., GIRELLI V.A., REMONDINO F., VITTUARI L.
Surface Modelling of complex archaeological structures and walls by digital close-range photogrammetry

16.50
HUADONG G., CHANGLIN W., YUEPING N., XIANGTAO F., YANG L.
Applications of Remote Sensing Archaeology technologies in China

17.10
CAPPELLINI V., UCCHEDDU F.
3D Watermarking of 3D digital models for IPR protection

17.30
DI TONDO S., FANTINI F.
Architectural lectures through three dimensional stratigraphy interpretation: Villa Adriana in Tivoli

SCHEDULE: Thursday 7 DECEMBER

9.00 Key Note Speaker
A. ADDISON, UNESCO World Heritage Center
Putting Place back into 3D Space: Digital Data Collection, Markup, and Archiving for Heritage

9.30 SESSION 8 - 3D visualization of place and landscapes

Chair - M.Doneus

9.30
MING Y., HUA A. T.
Studying Visualization of 3D Data on a Small Island in China

9.50
PUMA P., BATTINI C., BIANCHINI L., CONCAS F., CORNIETI M., TIOLI F.
3D Visualization of archaeological place of Corzano Documentation, search, communication medium

10.10
SALONIA P., SCOLASTICO S., BELLUCCI V.
Laser scanner, quick stereo-photogrammetric system, 3d modeling: new tools for the analysis and the documentation of cultural archaeological heritage

10.30
SAUERBIER M., SCHROTTER G., EISENBEISS H., LAMBERS K.
Multi-resolution image-based visualization of archaeological landscapes in Palpa, Peru

10.50
SCHNEIDER M., KLEIN R.
Interactive segmentation in large terrain models

11.10 - 11.20 COFFEE BREAK

11.20 SESSION 9 - Virtual Archaeological Reconstruction

Chair - D.Dayalan

11.20
COBEN L., BOULIFARD P.J.
Incallajta. Performance center of the Inkas: a digital reconstruction and virtual reality analysis

11.40
MORO A., VICO L., VASSALLO V.
The importance of the relief and the sources to interpret and communicate the cultural heritage

12.00
AKCA D., REMONDINO F., GRUEN A., NOVAK D.
Recording and modeling of cultural heritage objects with structured light projection system

12.20
BERTACCHINI P.A., DELL'ACCIO A., GIAMBÒ S., NACCARATO G., PANTANO P.
WebGIS and tourist personalized itineraries for exploitation of calabrian cultural and archaeological heritage

12.40 BLERSCH D., BALZANI M.
3D Digital Survey and Visualization of the Etruscan "Ipogeo dei Volumni" at Perugia and the simulated timber structures of carpentry

13.00 -14.30 BREAK

14.30
BOOCHS F., HOFFMANN A., HUXHAGEN U., WELTER D.
Digital reconstruction of archaeological objects using hybrid sensing techniques – the example Porta Nigra at Trier

14.50
CORSINI M., DELLEPIANE M., CALLIERI M., SCOPIGNO R.
Reflection Transformation Imaging on larger objects: an alternative method for Virtual Representations

15.10
SHEETS P., SEVER T.
3-D Visualization of Ancient Processional Landscapes in Costa Rica

15.30 SESSION 10 - Landscapes, CRM and Ethic

Chair - L.Lancaster

15.30
BERTOCCI S., PARRINELLO S.
The Flaminia way in Umbria: an integrated survey project for the study and conservation of the historical, architectural and archaeological features

15.50
CALORI L., CAMPORESI C., PALOMBINI A., PESCARIN S.
Sharing interpretation: the challenge of Open Source web approach

16.10
COLOSI F., FANGI G., GABRIELLI R., ORAZI R., PELOSO D.
Operative action for the conservation of the archeological complex of ChanChan, Perù

16.30 - 16.40 BREAK

16.40
DAYALAN D.
Use of remote sensing and GIS in the management and conservation of heritage properties at Agra

17.00
KLIGMANN D. M.
Teaching and using Remote Sensing in Argentine archaeology: evaluating the university curricula and the scientific production of the last decade

17.20
OX J., VAN DER ELST J.
Space and Time: Virtual Reality and the Art of Experience

17.40
PONTRADOLFO A., SANTORIELLO A., SIRANGELO L., SCENZA F.U., MARINARO M., PUGLIESE L., SCARPETTA S., ESPOSITO A.
Integrated Technologies for the Reconstruction of the Ancient Landscape of Posidonia-Paestum

POSTERS

BETTO, G. DE ANGELI, F. SARTOR

“Embanked roads” of the Southern Valli Grandi Veronesi. Between airphoto interpretation and round evaluation of buried stratigraphy: a positive feedback

CAMPANA S., FRANCOVICH R., MARASCO L.

Remote Sensing and Ground-Truthing of a Medieval Mound (Tuscany - Italy)

CAMPANA S., FRANCOVICH S., PERICCI F., CORSI M.

Aerial Survey Project in Tuscany: years 2000-2005

CAMPANA S., FREZZA B.

A proposal for the digital storage and sharing of remotely sensed archaeological data

CAMPANA S., SORDINI M.

Mobile computing in archaeological prospection: an update

DE LAET V., PAULISSEN E., VANHAVERBEKE H., WAELEKENS M.

Geo-archaeological site location modelling in the territory of a classical town - Case Study Sagalassos (southwest Turkey)

DELL'UNTO N., GALEAZZI F., DI IOIA M.

Via Flaminia project: relief and post processing data techniques

DE MINICIS E., GABRIELLI R., PELOSO D.

Un Sistema Informativo Archeologico: applicazione presso la scavo di Ferento (Viterbo)

FORTE M., PESCARIN S., PIETRONI E.

Transparency, interaction, communication and open source in Virtual Archaeology

GOFFREDO R.

Aerial archaeology in Daunia (Northern Puglia, Italy). New research and developments

KADOBAYASHI R.

3D Blog – A New Way of Supporting Communication about Cultural Heritage

LABOURY D.

A new tool for 3D archaeological and epigraphic recording

MRAKIC A., PANCANI G.

The archaeological and naturalistic park of 100 rural Roman farms in Lucca, Italy

MEROLA P., ALLEGRINI A., GUGLIETTA D., SAMPIETRI S.

Using Vegetation Indices to study archaeological areas

NIKNAMI K. A., MOHAMMADIFAR YA'KOUB

Modeling Parthian site distribution patterns in the Central Zagros, Western Iran

OŠTIR K., KOKALJ Ž., ŠPRAJC I.

Application of remote sensing in the detection of Maya archaeological sites in South-eastern Campeche, Mexico

OX J., VAN DER ELST J.

GridJam. A Networked 3D Immersive Performance

REJAS AYUGA J. G., BURILLO MOZOTA F., LÓPEZ, R. , FARJAS ABADÍA, M.

Hyperspectral remote sensing application in the celtiberian city of Segeda

ROSSI A., SANTORIELLO A.

Using historical aerial photographs: the case of Pontecagnano and its territory (Salerno, Italy)

DRAP P., FRANCHI R., GABRIELLI R., PELOSO D., ANGELINI A.

Active and Passive 3D survey merging. The case study of the water channel system in Al Habis castle, Jordan

SONNEMANN T., SAUERBIER M., REMONDINO F.

Reality-based 3D modeling of Angkor temples using aerial images

WILLIAMSON R. A.

New Aerial and Satellite Remote Sensing Methods for Heritage Conservation

IAONIU N.

The Application of Remote Sensing and Aero-photographic Archaeology in the West of Inner Mongolia Autonomous Region