



# PROGRAM

**LIMES Congress XXV**

21-27 August 2022

Nijmegen

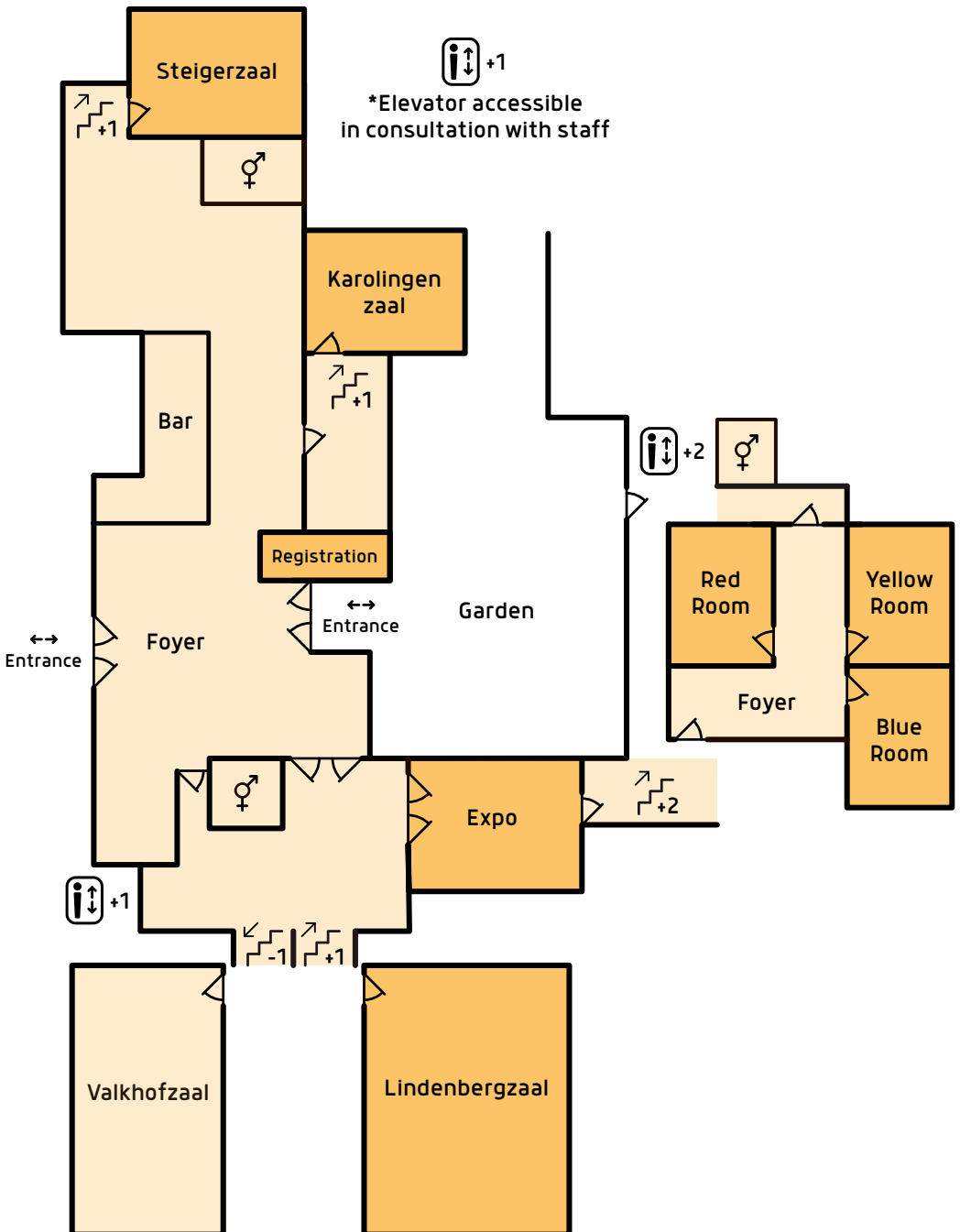


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# FLOOR PLAN



# DEAR PARTICIPANT

In this handy booklet, we have summarised the congress program that we have put together for you. We hope you will find the various parts of the congress informative and enjoyable. Stay curious and please feel free to speak to anyone if you have any questions. We wish you a pleasant stay in Nijmegen and the Netherlands.

The Scientific Committee:

Mark Driessen	Erik Graafstal
Tom Hazenberg	Tatiana Ivleva
Carol van Driel-Murray	Harry van Enckevort

## ORGANISATIONAL TIPS

### Emergency contacts:

EU emergency number: 112

Organisational: +31 (0) 6 1212 1332

### Lunch boxes available!

The Lindenberg offers vegetarian lunchboxes for congress participants exclusively. Lunch tickets can be bought at the congress registration desk.

1 lunch box = € 10,- / Special week offer: 5 lunchboxes, (Sunday, Monday, Wednesday, Friday, Saturday) = € 45,-

Payment can be made by debit card, cash, or credit card.

### Nijmegen by bike

You can rent a bike at [jasperfietsen.nl](https://jasperfietsen.nl) / +31 (0) 24 202 2150

### Public transport

The congress venue, the Lindenberg, is a 15-minute walk from Nijmegen Central Station. Buses are available from central station every 10 minutes. We advise to use the <https://9292.nl/en> website to find out your most convenient travel schedule.

Check [intonijmegen.com](https://intonijmegen.com) for fun activities to discover during your stay.

# CITY OF NIJMEGEN

The first Roman legions arrived in 19 BC. In the modern town of Nijmegen, and settled in a fortress at the Hunerberg in the eastern of the city. Shortly thereafter, the historical known Batavian capital Oppidum Batavorum (Batavodurum) was founded in the vicinity.

The Batavians revolted against the Romans in AD 69/70, and Oppidum Batavorum was destroyed by fire. A new fortress for Legio II adiutrix was erected on the ruins of the Batavian capital, but the legion was moved in AD 71 to Chester in Britannia the following year.

They were replaced by Legio X gemina that built a new fortress at the Hunerberg. At the same time, a new capital for the Batavians was built more to the west, which was named Ulpia Noviomagus by Emperor Marcus Ulpius Traianus around the year AD 100 (the name Nijmegen is derived directly from Noviomagus). At the same time, the capital was granted town privileges by the emperor, making Nijmegen the oldest town of the Netherlands.

Around 160-170 AD the city was destroyed by fire. Under Emperor Septimius Severus the town was rebuilt and even expanded. At the end of the 3rd century, the town was abandoned and the military and civilian population was concentrated in a newly built castellum at the Valkhof in the center of Nijmegen.

The conference venue is partly lying within the ditch of this reinforcement. This castellum was in the Carolingian period transformed into a Pfalz where Charlemagne regularly stayed during his visits to the Lower Rhine Area.



# HOUSEKEEPING REMARKS

- To enter the LIMES Congress, busses, sites and excursions, it is mandatory to wear your badge **at all times**. Failure to wear your badge may result in denied entry.
- During the sessions, please silence your mobile devices.
- It is not allowed to record or take pictures, unless you have previously obtained permission to do so.
- Please do not leave personal items unattended.
- It is prohibited to smoke inside the congress venue.
- The Code of Conduct and the Terms and Conditions of the LIMES Congress XXV are available at the congress website: [www.limes2022.org](http://www.limes2022.org)

# BOOK STANDS

- Archaeopress
- BAR Publishing
- Nünnerich-Asmus Verlag
- Römisch-Germanische Kommission

Please visit the book stands during congress hours.

# SOCIAL EVENTS

During the week, there are several social events that you can attend.

- Welcoming reception at the Vereeniging  
Sunday August 21, 17:30-19:00 hours
- Tour and Drinks at the Valkhof Museum  
Wednesday August 24, 18:00-21:00 hours
- Closing Dinner and Party at restaurant De Hemel  
Saturday August 27, 19:00-22:00 hours
- Daily Recaps in the Lindenberg Foyer  
Monday, Wednesday and Friday around 17:30 hours

## IN MEMORIAM

In memory of all the people that the Limes community has lost in recent years, a moment of remembrance has been set up in the Valkhof Chapel. In the Valkhof Chapel is a tree where one can hang a photo or card in memory of the deceased. The Valkhof Chapel is opened on Wednesday, 24 August from 15.00-20.00 hours.

The Valkhof Park with its chapels is a classified monument, the hill itself is an archaeological monument, and both form part of the protected townscape of Nijmegen centre.



# SUNDAY, AUGUST 21

Lindenbergzaal / video transmission in the Steigerzaal

08:30

## WELCOMING COFFEE - FOYER

10:00

### Opening ceremony

Chair: Jeroen van Zoolingen, Senior Archaeologist of the Municipality of The Hague

10:00

**Harry van Enckevort**, Chair of Scientific Committee of the 25th Limes Congress and Senior Archaeologist at the Municipality of Nijmegen – *Welcome to the 25th Limes Congress*

10:10

**Rebecca Jones / Andreas Thiel**, Co-Chairs of the 25th Limes Congress, Head of Archaeology and World Heritage at Historic Environment Scotland and Visiting Professor at Heriot-Watt University / Senior Conservator at the State Office for Monument Preservation Baden-Württemberg – *Welcome from the Co-Chairs*

10:25

**Jean-Paul Broeren**, Deputy Mayor of Nijmegen – *Welcome in Nijmegen*

10:35

**Jelmer Prins**, Programme Manager Nederlandse Limes Association, *Hurray! UNESCO World Heritage. What's next?*

10:45

**Erich Claßen**, Director LVR-State Service for Archaeological Heritage and Chair of the Deutsche Limeskommission – *Management and Research along the UNESCO World Heritage „Frontiers of the Roman Empire. The Lower German Limes“ in Germany*

10:55

**Tatiana Ivleva**, Visiting Fellow Newcastle University and Co-Author of the book: A History of the Congress of Roman Frontier Studies 1949-1922 – *Towards LIMES XXV/2022. An occasion to celebrate*

11:05

**David Breeze**, Co-Initiator of the FRE-books and former Co-Chair of the Limes Congress – *Introduction to the new Frontier of the Roman Empire-books*

11:35

**Organisation** – *Housekeeping remarks*

15:20

## LUNCH BREAK

13:30

### Welcome to the Lower German Limes

Chair: David Breeze



13:30 **Erik Graafstal / Steve Bödecker**, Senior Archaeologist at the Municipality of Utrecht / Limes Commissioner LVR-State Service for Archaeological Heritage – *Rome's first frontier. An introduction to the Lower German Limes.*

14:10 **Harry van Enckevort**, Senior Archaeologist at the Municipality of Nijmegen – *Roman Nijmegen*

14:40 **Tom Hazenberg**, Owner of 1Arch/Hazenberg Archeology in Leiden – *Ships of the Lower German Limes*

15:10 **COFFEE BREAK**

15:20 **Highlights of the Lower German Limes**

Chair: Jeroen van Zoelingen

15:20 **Carol van Driel-Murray / Silke Lange**, Guest Staff Member Leiden University / Senior archaeologist and wood specialist at BIAx Consult in Zaandam – *Organic treasures of the Lower German Limes*

15:37 **Stijn Heeren**, Assistant Professor Vrije Universiteit Amsterdam and Project Leader of the PAN-Programme – *Portable Antiquities of the Netherlands (PAN) and limes-related finds*

15:52 **Boris Alexander Burandt**, Head of Museum Burg Linn in Krefeld – *Battle of GELDVBA – New insights from a conflict zone of the lower German limes*

16:07 **Wouter Vos**, Owner of Vos Archeo in Oosterbeek and Lecturer Saxion University of Applied Sciences in Deventer – *The most iconic Roman site in the Rhine estuary on the Lower German Limes*

16:22 **Erik Verhelst**, Senior Archaeologist at RAAP Archeologisch Adviesbureau B.V in Weesp – *The Hercules Magusanus sanctuary of the Cohors II Civium Romanorum Equitata in Herwen (the Netherlands)*

16:42 **Mark Driessen**, Assistant Professor in Provincial Roman Archaeology at Leiden University – *Temporary Roman camps near Ermelo on the Veluwe*

17:00 **ADJOURNMENT**

17:30 **Welcoming reception at restaurant De Vereniging**

# MONDAY, AUGUST 22

	09:00	09:20	09:40	10:00
Lindenbergaal	<b>19. Wall to Wall Chair: Tony Wilmott</b> <b>David Brough</b> Introduction to the Wall to Wall initiative and overview of the Great Wall of China			
		<b>Jianxin Wang</b> The Centenary of Chinese Archaeology	<b>Wenyan Liu</b> Overview of the Archaeological Survey of the Great Wall	<b>Yan Li</b> Comparison of the Great Wall of China and the Frontiers of Imperial Rome
Steigerzaal	<b>3. Ripae et litora Chairs: Wouter Dhaeze, Erik Graafstal, Tom Hazenberg &amp; Jeroen van Zoolingen</b>			
	Introduction	<b>Alistair McCluskey</b> Prisoners of ethnogeography: Transnational dynamics of warfare between Late Iron Age Ireland and the Roman frontier in Britain?	<b>Wouter Dhaeze</b> Sea frontiers along the Channel and the North Sea. Development, purpose and tactics	<b>Jeroen van Zoolingen</b> Defending dunes and marching along marshes: details of the Antonine coastal limes between Rhine and Meuse
Karolingenzaal	<b>4. Digital Limes Chairs: Roeland Emaus, Maarten Sepers &amp; Wouter Vos</b>			
	<b>Wouter Vos</b> Introduction	<b>Esperanza Martin Hernandez</b> Remote sensing and excavation in Villamontán camps	<b>Jennifer Schamper</b> Everything but straight – new geophysical research on 75 km of the Upper German Limes	<b>Arnau Lario Devesa</b> A look into the big picture: identification of trade patterns in the Western Roman border using Network Science
Red Room	<b>8. Home away from home Chairs: Tatiana Ivleva, Stijn Heeren &amp; Pete Wilson</b>			
	Introduction	<b>Christina Crizbasan</b> I am going on a trip, what am I going to pack? A comparative approach to the pottery of Batavians at home and abroad	<b>Trudi Buck</b> Evidence for child migration and early death at Vindolanda on the northern frontier of Roman Britain	<b>Stijn Heeren</b> An archaeological and quantitative isotope study of population dynamics in the Late Roman Lower Rhine borderscape
Yellow Room	<b>34. New Research Moesia Chair: Phil Nemanja Mrđić</b>			
	Introduction	<b>Nemanja Mrđić</b> Legionary fortress at Viminacium and the Principia of the VII Claudia Legion	<b>Piotr Zakrzewski</b> What did and what did not change in the fortification system of Novae (Lower Moesia)	<b>Ivan Bogdanović</b> Is Anybody out there? Viminacium Legionary Fortress in Late Antiquity
Blue Room	<b>33. General Session I Chair: Dr. Harry van Enckevort</b>			
	<b>Paul Kessener</b> The Roman Aqueduct of Noviomagus	<b>Dmitry Karelin</b> Depictions of Fortifications in Roman Art as source for their reconstructions	<b>Angel Morillo</b> Evidence of practice camps in Hispania: The Legio military complex	<b>Željko Miletić</b> The last legion on the Limes Delmaticus – VIII Augusta

# MORNING

10:20      10:50      11:10      11:30      11:50

## 19. *Wall to Wall* Chair: Tony Wilmott

### Chunlei Yu

Archaeology of the Great Wall of Ming Dynasty: Qingping Fort Site

### Wenping Zhang

Large granary found along the Great Wall of the Western Han Dynasty in Hetao area

### Jianwei Zhang

An innovative digitalisation approach to the intervention process management in the great wall conservation and maintenance project

### Fei Cheng

Fragility assessment of the natural disasters of the Great Wall in Ningxia, China

## 3. *Ripae et litora* Chairs: Wouter Dhaeze, Erik Graafstal, Tom Hazenberg & Jeroen van Zoolingen

### Arjen Bosman

The Roman bases at Velsen

### Jane Harrison

The Mystery of the Marsh: the western end of Hadrian's Wall, UK

### Philip Smither

Shore-ing Up Britain

### Christoph Rummel

When's a fleet a fleet? Classes and legions on the water

## 4. *Digital Limes* Chairs: Roeland Emaus, Maarten Sepers & Wouter Vos

### Kamil Kopij

Acoustics and proxemics of military contiones

### Claire Stocks

The Missing Dead: Reconstructing the Past through Digital Gameplay at Roman Vindolanda

### Adjournment

## 8. *Home away from home* Chairs: Tatiana Ivleva, Stijn Heeren & Pete Wilson

### Michael Klein

Mainz-Mogontiacum: an ethnic melting pot on the Rhine frontier in the 1st century AD

### Julia Kopf

Soldiers, slaves, priests, administrative servants(?): persons with Greek/oriental names in Rhaetia

### Eduard Nemeth

Ex toto Orbe Romano – ethnical diversity at the western frontier of Roman Dacia

### Kai Juntunen

The retirement of the Roman auxiliary soldiers as seen in the light of discharge diploma discoveries

## 33. *General Session I* Chair: Dr. Harry van Enckevort

### Martijn Wijnhoven

Semi-rigid scale armor. New insights into a classical Roman armor through a systematic study of the evidence

### Jared Kreiner

Challenges for Auxilia veterans in going home

### Eberhard Sauer

Alchester: Life in a fortress of the AD 40s

### Harry van Enckevort

Adjournment

COFFEE BREAK

# MONDAY, AUGUST 22

**LUNCH BREAK  
12:10 - 13:30**

13:30

13:50

Lindenbergsaal

### **32. *Frontiers of the Roman Empire. World Heritage across three*** **Rien Polak**

Frontiers of the Roman Empire:  
World Heritage across three  
continents – Context of the  
session

### **Zeynep Aktüre**

The Eastern Limes: Observations  
Towards a Sustainable  
Nomination Strategy for the  
Anatolian Frontier

Steigerzaal

### **3. *Ripae et litora* Chairs: *Wouter Dhaeze, Erik Graafstal,***

#### **Kim Cohen**

Lower Rhine River  
palaeolandscape mapping:  
understanding meander dynamics  
below and along and flood  
deposition around and above  
Limes archaeological horizons

#### **Wilfried Hessing**

The Fossa Corbulonis, keeping  
track on a multitude of small  
excavations, new ideas on its  
original purpose and further use

Karolingenzaal

### **31. *Simulating the Limes Challenges to computational modelling in***

Introduction

#### **Iza Romanowska**

Modelling the social, economic  
and demographic trends at the  
Roman eastern frontier

Red Room

### **23. *Small finds everywhere* Chairs: *Hannes Flück & Orsolya Láng***

Introduction

#### **Douglas Carr**

The Northern Frontier of  
Britannia and its Coinage

Yellow Room

### **24. *The Limes- Mousiae-Scythiae, dynamic landscapes and places***

#### **Dominic Moreau**

The Limes Moesiae/Scythiae  
According to the Historical  
Sources

#### **Martin Lemke**

From imperial guardians to local  
patriots: the defenders of Novae  
(Moesia inferior) in Late Antiquity  
and their relationship to state,  
church and neighborhood

Blue Room

### **26. *'In the Empire of Desert, Water is the King' and local peoples***

Introduction

#### **Brahim M'Barek**

A settlement pattern to control the  
eastern desert fringes late 3rd-early 4th  
century AD from Jordan to Tur Abdin,  
military sites, civil settlements, control,  
development and exploitation of the  
territory

14:10

14:30

14:50

*continents Chairs: Rien Polak, René Ployer & Stéphanie Guédon*

**Markus Gschwind**

Roman Syria in view of the UNESCO World Heritage Cluster  
Frontiers of the Roman Empire

**Aomar Akerraz**

Le Limes de Tingitane

*Tom Hazenberg & Jeroen van Zoolingen*

**Thomas Becker**

River Main as route of military supply – new archaeological and geoarchaeological research

**Norbert Hanel**

Bridge construction and maintenance work at the ripa Rheni and on the upper course of the rivers Moenus and Mosa as strategic construction measures in the 4th century AD – Results from dendrochronological and historical studies

*Roman Studies Chair: Philip Verhagen*

**Nathaniel Durant**

Lost and Found on the Frontier: Modeling Forts and Landscape in Scythia Minor (4th-7th centuries A.D.)

**Philip Verhagen**

Subsistence, surplus and trade along the Lower Germanic limes: modelling rural-urban socio-economic interactions

**Rahel Otte**

The Roman army on the Rhine and the monetization of the rural hinterland

**Edwin Wood**

Military Artefacts in the Civil Province of Britannia, a case study: Trompetenmuster mounts

*Chairs: Jonathan Quiry & Matthew Previto*

*on the arid frontiers of the Roman Empire Anna- Katharina Rieger & Mark Driessen*

**Andrew Smith**

Soldiers and farmers in Roman Arabia: evidence of Diocletian's reforms in the Hinterland of Petra

**Craig Harvey**

Competition, collaboration, and innovation: organization of the water supply for the Trajanic frontier fort in the Nabataean settlement of Hawara (Southern Jordan)

COFFEE BREAK

# MONDAY, AUGUST 22

15:20

15:40

16:00

16:20

Lindenbergaal

**32. Frontiers of the Roman Empire. World Heritage across three continents** *Chairs: Marinus Polak,*  
**Mustapha Khanoussi** **Stephanie Guedon** **Christof Flügel** **Ivana Ozanic Rogulijic**  
 The Frontiers of the Roman Empire in North Africa  
 Frontiers of the Roman Empire-UNESCO World Heritage and frontier perspectives  
 Communicating The Frontiers of the Roman Empire: European Interpretation Frameworks as a Blueprint for the North African Limes?  
 Living Danube Limes

Steigerzaal

**3. Ripae et litora** *Chairs: Wouter Dhaeze, Erik Graafstal, Tom Hazenberg & Jeroen van Zoelingen*  
**Ian Longhurst** **Ronald Visser** **Yardeni Vorst** **Adjournment**  
 Chesters Road Bridge  
 Securing the transport of timber on water  
 Operation Zwammerdam ships: Putting things together on rowing and steering on the Roman Rhine

Karolingenzaal

**31. Simulating the Limes Challenges to computational modelling in Roman Studies** *Chair: Philip*  
**Toon Bongers** **Nicholas Bartos** **Ioana Oltean** **Marek Vlack**  
 Are all nodes born equal? The application of spatial network analysis to assess the role of rivers in the Roman-era transport network of the Meuse basin  
 Exploring economic regionalism through maritime mobility: the Roman red sea and beyond  
 Connectivity and the Roman army on the Lower Danube – a GIS approach  
 Modelling supply logistics and strategic aspects of the Roman military presence in the Middle Danube region during the Marcomannic wars

Red Room

**23. Small finds everywhere** *Chairs: Hannes Flück & Orsolya Láng*  
**Stefanie Hoss** **Boris Alexander Burandt** **Hannes Flück** **Orsolya Lang**  
 New insights into the distribution of Roman metal finds with PAN  
 Are you not entertained? – Different perceptions of gladiator fights at the frontiers of the Roman Empire  
 The Capulets vs. The Montagues? – exploring differences within a settlement through their spectrum of brooches  
 Moving on: what material analyses of the Aquincum millstones can tell us about function and the local economy?

Yellow Room

Blue Room

**26. 'In the Empire of Desert, Water is the King' and local peoples on the arid frontiers of the Roman**  
**Mark Driessen & Fawzi Abudanah** **Walter Ward** **Gaëlle Tallet**  
 A green desert in the hinterland of Petra: water, agriculture and military control in the Udruh region (southern Jordan)  
 Water and control along the later Roman Empire's south-eastern border  
 Irrigating the land, provisioning the caravans: water decline and military settlement at el-Deir (Kharga Oasis, Western Desert of Egypt)...

# AFTERNOON

16:40

*René Ployer & Stéphanie Guédon*

**Ivana Kosanović**

From Limes invisibilibs to the UNESCO World Heritage Property – The Danube Frontier in Serbia

17:00

**Rebecca Jones**

Developing a management system for the FRE WHS?

## Social Events

**Poster session  
Expo Room  
17:30**

*Verhagen*

**Kira Lappe**

The Weight of Roman Reign

**Adam Pazout**

Take me home, Roman road: A model of the Roman terrestrial transport network, Challenges of data collection along the Limes

**Adjournment**

**Daily Recap  
Lindenberg Foyer  
17:30**

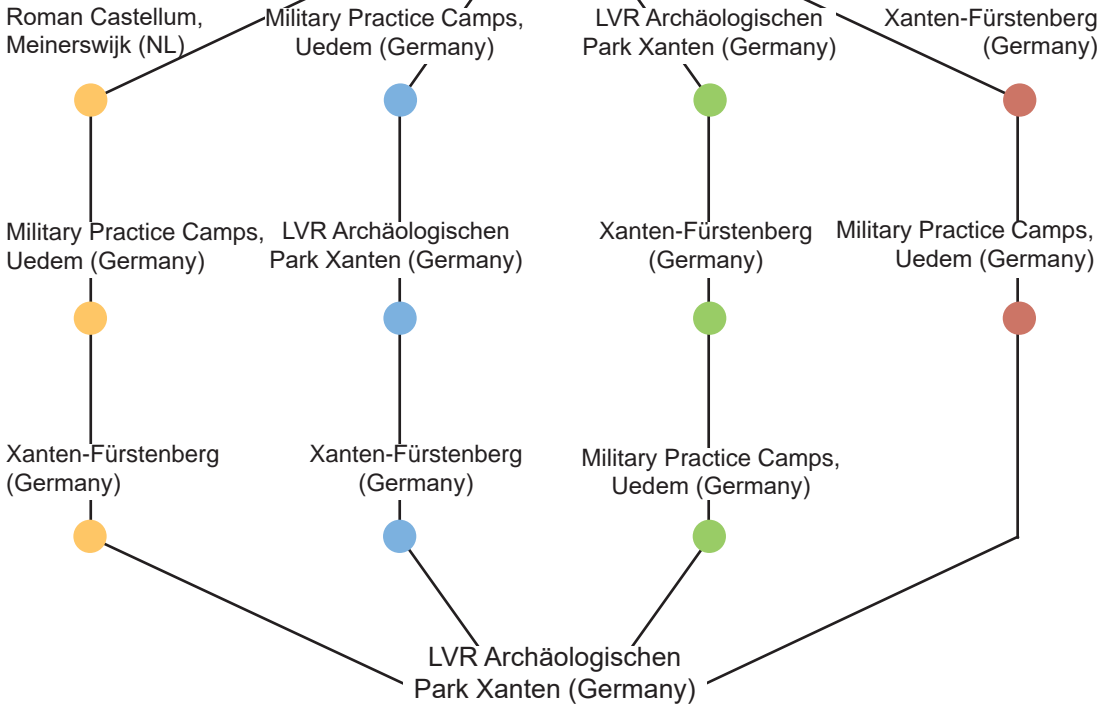
*Empire Anna- Katharina Rieger & Mark Driessen*

# TUESDAY, AUGUST 23

Gathering at 07:30 hours.

**Busses leave at 08:00 hours.**

De Lindenberg, Nijmegen



● Group A

● Group B

● Group C

● Group D

De Lindenberg, Nijmegen

## Important:

Passport or travel ID needed

Bring your congress badge

Bring your LIMES Congress water bottle



# FIELD EXCURSION



Vetera castra. Preliminary interpretation plan of excavations, aerial/geophysical surveys. Steve Bödicker, Matthias Angendend. LVR-ABR, 08-2022.



# WEDNESDAY, AUGUST 24

09:00

09:20

09:40

10:00

Lindenbergaal

## 1. Roman imperialism I. Chairs: Nico Roymans, Manuel Fernández-Götz & Erik Graafstal

**Johann Schrempf**

Making Suebi – Roman frontier management in the southern Upper Rhine valley in the 1st c. AD?

**Arno Braun**

Westward! Population dynamics along the Middle and Upper Rhine during the 1st century BC

**Marion Brüggler**

The case of the Cugerni on the Lower Rhine

**Erik Graafstal**

Settlers from the North? A late-Augustan Landnahme in the Utrecht region

Steigerzaal

## 18. Reconstructing the Limes. Chairs: Saskia Stevens, Richard Hingley & Chiara Bonacchi

Introduction

**Koen Ottenheym**

Reception of the Limes in cities along the Rhine and Danube in the 16th and 17th Centuries

**Catherine Visser**

The Romantic Limes – The current visualisation of Roman archaeology of Forum Hadriani in historical and cultural perspective

**David van Oeveren**

Educating the masses. National Antiquity and education in the Low Countries (1800 – 1945)

Karolingenzaal

## 16. Dress and adornment Chairs: Ursula Rothe, Anique Hamelink, Dorothee Olthof & Philip Smither

Introduction

**Elizabeth Greene**

In Someone Else's Shoes: Constructing identities on the Roman frontiers through footwear

**Anique Hamelink**

Dining 'Roman style': wearing the synthesis on funerary monuments in the Rhineland and Britain

**Hans Huisman**

Hairy problems – an experimental approach to the possible archaeology of spuma Batava

Discussion

Red Room

## 36. Germany Chair: Clive Bridger

Introduction

**Sabine Hornung**

From Caesar to Late Antiquity – Landscape archaeological research in the vicinity of the Hermeskeil fortress (Rhineland-Palatinate...)

**Sebastian Gairhos**

The rediscovery of Augsburg-Oberhausen

**Tilmann Bechert**

Claudius oder doch Agrippa? Zur Bedeutung des sog. Ubiermonuments in Köln

Yellow Room

## 33. General Session II Chair: Dr. Tatiana Ivleva

**Balázs Komoróczy**

Recent research of Roman military intervention during the Marcomannic wars in the territory of today's Moravia

**Ildar Kayumov**

Reconstructing Heron's Cheiromballistra: a century and a half of "getting it right"

**Dé Steures**

Reading the Roman inscriptions exhibited in Lower Germany; in Latin and in English, Dutch or German translation

**Jan Verhagen**

Roman Waterworks in the Rhine-Meuse delta

Blue Room

## 14. New research along the Danube Chair: Gerald Grabherr

Introduction

**Gerard Grabherr**

Military border control in the procuratorial province of Noricum

**Barbara Kainrath**

One thing leads to another: settlement development in Stein – Enns

**Stefan Groh**

A tale of three fortresses

10:20      10:50      11:10      11:30      11:50

**1. Roman imperialism I.** *Chairs: Nico Roymans, Manuel Fernández-Götz & Erik Graafstal*

**Jasper de Bruin**

Agros vacuos. De- and repopulation of the Dutch coastal area c. 50 BC – AD 100

**Nico Roymans**

Ethnic recruitment and the genesis of the Batavi as a soldiering people. The numismatic evidence

**Julie Van Kerckhove**

Evidence for immigration in the Batavian region in the pre-Claudian Era. The study of large handmade pottery assemblages using a combination...

**Manuel Fernández-Götz**

Changing landscapes in the northern frontier: Contrasting settlement patterns north and south of Hadrian's wall

**18. Reconstructing the Limes.** *Chairs: Saskia Stevens, Richard Hingley & Chiara Bonacchi*

**Richard Hingley**

Performing diversity on Hadrian's Wall

**Sebastian Ristow**

Cologne Praetorium, new findings: The bath of the Governor

**Adjournment**

**16. Dress and adornment** *Chairs: Ursula Rothe, Anique Hamelink, Dorothee Olthof & Philip Smither*

**Dan Aparaschivei**

Clothing accessories as indicators of daily life in the Province of Scythia. The case of Ibida walled town in the 4th-5th centuries AD

**Krzysztof Narloch**

A sign of good relations. Why did Roman soldiers wear the ridge helmets?

**Kelvin Wilson**

Survival of Native Dress: A Visual Compendium

**Adjournment**

**36. Germany** *Chair: Clive Bridger*

**Clive Bridger**

Strange things afoot. A group of unusual burials under the CUT by-pass, Xanten

**Julia Koch**

New Research on the Funerary Landscape of the Arnsburg fort at the Upper German Limes

**Sandra Schröer-Spang**

Maximum insight with minimum intervention – New research at the Roman fort of Ruffenhofen

**Andreas Schaub**

Das spätrömische Castrum auf dem Aachener Markthügel

**From Rome to the Limes, from the Limes to Rome**

*Robert Schmits & Tom Hazenberg*

Presentation of the LIMES-park Initiative

**14. New research along the Danube** *Chair: Gerald Grabherr*

**Felix Lang**

The lime kilns of the legio II Italica in Lauriacum/Enns

**Tino Lelekovic**

Roman burials on the Croatian part of the Danube Limes

**Kristin Opitz**

Life and death at the edge of the Roman Empire – Archaeological and anthropological data from late antique cemeteries at the Danube Limes

**Ana Kovačič**

Military small finds from Castra Ad Fluvium Frigidum (Slovenia)

# WEDNESDAY, AUGUST 24

**LUNCH BREAK  
12:10 - 13:30**

13:30

13:50

Lindenbergsaal

**1. Roman imperialism and early frontier formation. Chairs: Nico Andrew Lawrence**

Exploring power and domination in Rome's northernmost frontier zone

**João Fonte**

New data on the Roman military presence in the Gerês-Xurés Transboundary Biosphere Reserve and its impact on local landscapes and communities

Steigerzaal

**7. 'Managing the Romans????' Chairs: Tessa de Groot, Daniel Poulet Tessa de Groot**

Introduction

**Andreas Schafnitzl**

Limes in the woods – threats and chances

Karolingenzaal

**21. Funeral at the frontier Chairs: Arjan Ruiter & Lourens van der Feijst**

Introduction

**Henry Bishop Wright**

Across the Southern Frontier: Roman objects in Meroitic graves at Faras, Sudanese Nubia

Red Room

**9. FINES. The mechanisms and politics of frontier collapse, and the Berber van der Meulen-van der Veen**

Who supplied the foederati? Aspects of military equipment production in the Late Roman West

**Ferdinand Heimerl**

Apud limitem Latina iura ceciderunt – processes of continuity and collapse on the middle Rhine frontier and its hinterland

Yellow Room

Blue Room

**6. Feminists at the gates. Frontier research by female academics**

Introduction

**Catherine Teitz**

Walls don't stop women. An urban approach to frontier sites

# AFTERNOON

14:10

14:30

14:50

*Roymans, Manuel Fernández-Götz & Erik Graafstal*

**Jose Manuel Costa-Garcia**

The siege of Cerro Castarreño: reassessing the Roman indigenous dynamics between the River Douro valley and the Cantabrian Mountains (Spain) during the 1st c. BC

**Michel Reddé**

Le développement d'une zone frontière en milieu désertique : l'exemple de la Tripolitaine

*& Nigel Mills*

**Mateja Ravnik**

The neverended story – told in a new way

Roman legionary camp of the Legio II Italica, Ločica near Savinja river, Slovenia

**Mladen Jovicic**

Mortar Design for Conservation. Danube Roman Frontier 2000 Years After

**Kaja Stemberger Flegar**

Overview of burial customs in Roman period Slovenia

**Bebina Milovanovic**

Burial in lead sarcophagi on the Roman limes – examples of Viminacium

*afterlife of frontier installations Chair: Rob Collins*

**Raymond Brulet**

The abandonment of borders in northwestern Gaul in the middle of the fifth century : role and responsibility of the Franks

**Tomasz Dziurdzik**

"A former military road" – the afterlife of military installations in Trebižat river valley (Bosnia and Herzegovina)

*Chair: Anna Walas*

**Joanne Ball**

The visible invisibles: The epigraphic footprint of Roman women on the frontier in Britannia.

**Anna Mech**

Woman and Roman religion in provinces. Case study: Dalmatia

COFFEE BREAK

# WEDNESDAY, AUGUST 24

15:20

15:40

16:00

16:20

Lindenbergaal

## 1. Roman imperialism and early frontier formation. Chairs: Nico Roymans, Manuel Fernández-Götz &

### Timothy Hart

Getae, Moesi, and Scythians: Ethnographic (re)configurations in Rome's early lower Danube borderland

### Bernd Steidl

Indigenous and exogenous population groups in the Alpine foothills and the organisation of the province of Raetia et Vindelicia during the 1st century AD

### Damjan Donec

The Enemy Within? Military forts behind the Danube frontier

### Dragoş Măndescu

Before the Romans, their coins came. Hoards of Roman coins of Augustan Period in Late Iron Age South-Carpathian Dacia

Steigerzaal

## 7. 'Managing the Romans????' Chairs: Tessa de Groot, Daniel Poulet & Nigel Mills

### Kerry Shaw

Citizen Science on Hadrian's Wall: A WallCAP Case Study

### Riona McMorro

Engaging disadvantaged communities in heritage-led regeneration: The Rediscovering the Antonine Wall Project

### Nigel Mills

Frontier Voices – a participatory arts project exploring community connections and meanings of the World Heritage of the Roman Frontiers...

### Simon Sulk

Identity through art. How Weissenburg is strengthening its role as a Roman City in modern Bavaria

Karolingenzaal

## 21. Funeral at the frontier Chairs: Arjan Ruiter & Lourens van der Feijst

### Joep Hendriks

The rural burial landscape in the hinterland of Roman Nijmegen

### Frederique Reigersman van Lith de Jeugde

Buried with the dead

### Neeke Hammers

The significance of bulbous oat grass (*Arrhenatherum elatius* ssp. *bulbosum*) finds in cremation graves along the Dutch Limes

### Lisa Huber

Life and Death at the Danube Limes. The Cemeteries of Lauriacum/Enns

Red Room

## 9. FINES. The mechanisms and politics of frontier collapse, and the afterlife of frontier installations

### Dan Matei

The latest functioning phase of the castra in the province of Dacia

### Ignacio Arce

A Tetrarchic Fort underneath the Umayyad Palace of Khirbat al Mafjar at Jericho?

### Paul Kucera

The borderlands of Egypt's Western Desert in late antiquity

### Nick Hodgson

South Shields Roman fort as a case study in transition and abandonment at the end of empire

Yellow Room

## 22. Organic Riches. The impact of organic resources on Frontier research Chairs: Silke Lange &

### Carrol van Driel-Murray

Introduction to the session Organic Riches: wood, leather and textiles in frontier studies.

### Elizabeth Greene

The potential of Anaerobic Archaeological Environments: A case study investigating cultural contact in the community at Vindolanda

### Silke Lange

From tree to post. Logistics and organisation around infrastructural works in the Lower Rhine limes

### Julia Chorus

Timber joints and wickerwork: organic remains in forts and vici in the Lower Rhine area

Blue Room

## 6. Feminists at the gates. Frontier research by female academics Chair: Anna Walas

### Mirna Cvetko & Iva Kaić

Female archaeologists and Roman military research in Croatia

### Regine Fellmann & Christine Meyer-Freuler

Women in Vindonissa. A glimpse at pioneer female researchers around 1950

### Kseniya Danilochkina

Britannia Romana: ambiguous image of a province

### Rebecca Jones

Discussion

# AFTERNOON

16:40

17:00

*Erik Graafstal*

**Szilvia Bíró**

From “deserta Boiorum” to  
“civitas Boiorum”

**Daniel Poulet**

Community involvement in  
the World Heritage Sites of  
Pécs (Sopianae)

**Ana Zora Maspoli**

A funerary chaîne  
opératoire at Vindonissa

**Adjournment**

*Chair: Rob Collins*

*Carol van Driel-Murray*

**Rob Sands**

Vindolanda – Wood, Craft,  
Life & Connections: a view  
from the edge

**Tamara Vernimmen**

As good as new? A  
special wood finds from  
Houten (NL) suggesting a  
sustainable use of building  
materials in Roman times

**Rebecca Jones**

Discussion

## Social Events

**In memoriam  
Valkhof Chapel  
17:30-20:00**

**Poster session  
Expo Room  
17:30**

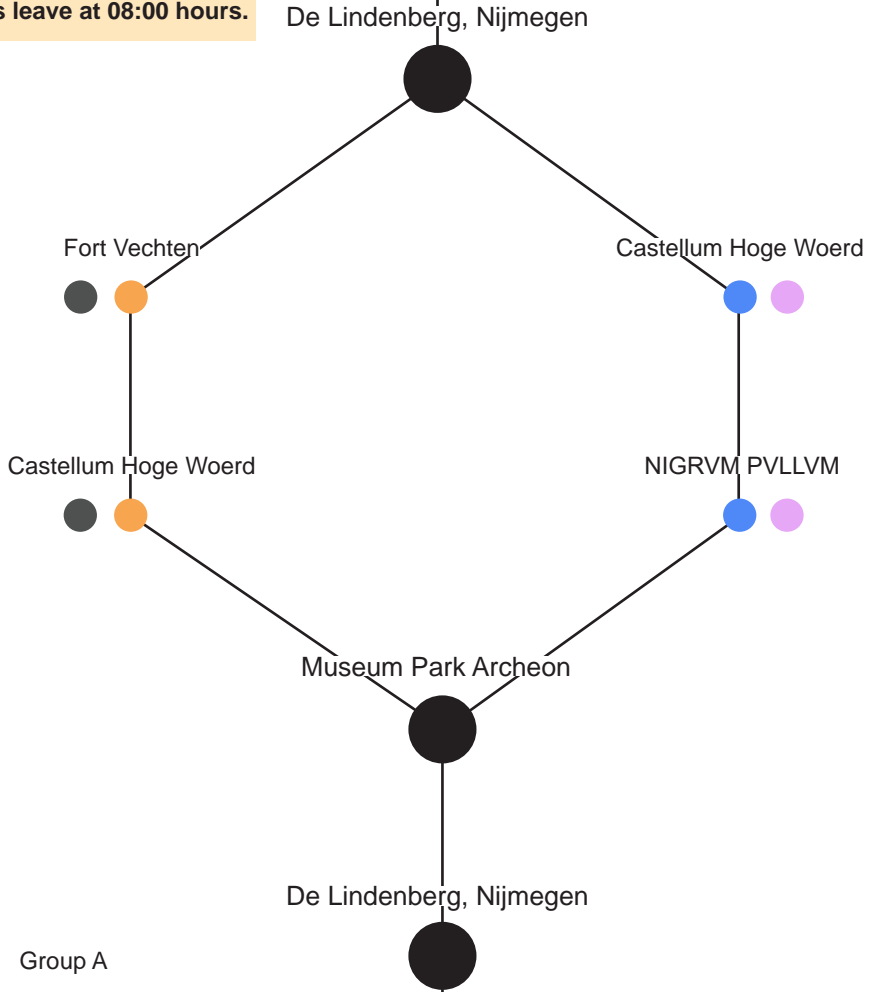
**Daily Recap  
Lindenberg Foyer  
17:30**

**Valkhof Museum  
Tour and Drinks  
18:00-20:30**

# THURSDAY, AUGUST 25

Gathering at 07:30 hours.

**Busses leave at 08:00 hours.**



● Group A

● Group B

**Important:**

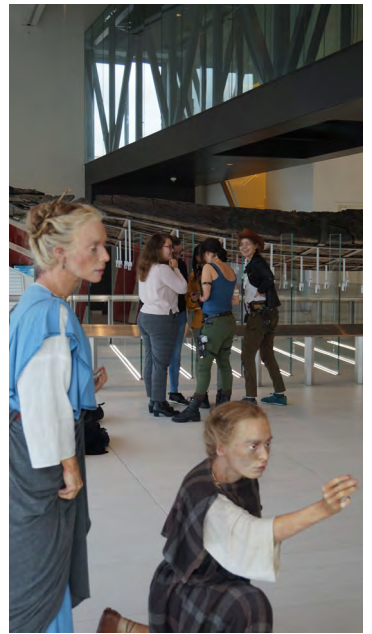
Passport or travel ID needed

Bring your congress badge

Bring your LIMES Congress water bottle



# FIELD EXCURSION



# FRIDAY, AUGUST 26

09:00

09:20

09:40

10:00

Lindenbergsaal

## 15. Rome's hunger for metals. Chairs: Markus Scholz & Daniel Burger-Völlmecke

Introduction

**Esperanza Martín Hernández**

Roman military activity in the gold mining areas of Hispania: an approach from landscape archaeology

**Mark Tucker**

Roman mining in the territory of the Dumnonii, an exploration of continuity and control

**Felix Teichner**

Die Erschließung des antiken Amselfeldes (Dardanien, Kosovo) durch Rom unter besonderer Berücksichtigung des Metallbergbaus

Steigerzaal

## 10. Tales of Glory. Narratives of Roman Victory Chairs: Martina Meyr & Christof Flügel

**Christof Flügel & Martina Meyr**

Introduction: tales of glory – Roman victory or two aides of one coin

**Kai Töpfer**

Visualizing Roman Power in the provinces – A look at common features and remarkable differences

**Edwin Wood**

Capricorn in Somerset: an Augustan image at the edge of empire

**Michael den Hartog**

The Vynen Monument and Commemorating a Greater Victory

Karolingenzaal

## 12. Legionary fortresses along the Rhine. State of research Chairs: Jürgen Trumm & Steve Bödecker

**Wouter Vos**

Valkenburg ZH – an unexpected Legionary Fortress near the mouth of the river Rhine (The Netherlands)

**Paul Franzen**

The capital that was not

**Vincent van der Veen**

Military equipment and horse gear from the Flavio-Trajanic castra and canabae at Nijmegen

**Steve Bödecker**

Vetera castra and the role of topography. Or why Tacitus was wrong and Augustus right

Red Room

## 11. Roman military activities during the Republic. Chairs: Janka Istenic & Angel Morillo Cerdan

Introduction

**Esther Rodrigo Requena**

The castellum of Puig Castellar of Biosca (Catalonia, Spain): a republican fortress from the second century BCE

**Joan Oller Guzmán**

The Roman army in the Oriental Pyrenees (2nd-1st c. BC): territorial control and management of provincial resources in the High Lands

**Federico Beernardini**

Grociana piccola Roman military fortifications (north-eastern Italy, second-first centuries BC)

Yellow Room

## 20. Basilica and churches in military outposts Chairs: Dominic Moreau & Ivan Gargano

**Robert Darby**

The 4th c. Church at 'Ayn Gharandal (Arieldela) and the Emergence of Christian Architecture in the Late Roman Army of Palestine

**Alan Rushworth**

Military churches, remodeled principia or fortified monasteries?

**Andrew Birley**

Late Roman and post-Roman Christianity on Hadrian's Wall: and the remarkable new evidence from Vindolanda

Blue Room

# MORNING

10:20      10:50                                      11:10                                      11:30                                      11:50

**15. Rome's hunger for metals. Chairs: Markus Scholz & Daniel Burger-Völlmecke**

**Lorenzo Boragno**

Missing Links. The production of iron-made equipment on a provincial scale: the case of Roman Dacia

**Joan Oller Guzman**

The "Emerald legio": involvement of the III Legio Cyrenaica in the development of emerald mining in Roman Egypt

**Gabrielle Rasbach**

Von Bergleuten, Händlern und römischem Militär im Lahntal (D) / Of miners, traders and Roman military in the Lahn Valley (D)

**Markus Scholz**

Under the eyes of Roman army: Early Imperial mining on the Lower Lahn river (D)

**10. Tales of Glory. Narratives of Roman Victory Chairs: Martina Meyr & Christof Flügel**

**Martin Kemkes**

It's all just propaganda? Victoria depictions and inscriptions on the Upper German-Raetian Limes

**Monica Gui**

Bits and pieces of Rome's glory in Dacia

**Louisa Campbell**

Polychromy and Epigraphic Practice in the Provinces: a view from the Antonine Wall

**12. Legionary fortresses along the Rhine. State of research Chairs: Jürgen Trumm & Steve Bödecker**

**Matheus Morais Cruz**

Amphora Studies in Xanten: from the local Roman legionary occupation to the imperial supply system

**Jens Wegmann**

Adding new pieces – Latest Research in the Legionary Fortress of Bonn

**Salvatore Ortisi**

Vezereos – Bir Rhezen. A Roman frontier post and watering place on the western end of the Tripolitanian Limes

**Tünde Kaszab-Olschewski**

Hier auch: Webgewichte in den Legionslagern Bonn und Neuss

**11. Roman military activities during the Republic. Chairs: Janka Istenic & Angel Morillo Cerdan**

**Loïc Buffat**

The battle of Arausio (105 b. C). State of research

**Carlos Pereira**

The Roman-Republican camp at Cáceres el Viejo (Spain): old theories and new perspectives

**Feliciana Sala Sellés**

A maritime frontier in Citerior Hispania during the Sertorian civil wars: a geostrategy story

**Magalie Kielb Zaaaroui**

L'organisation interne d'un camp militaire romain au milieu du ler s. av. J.-C. : à propos du camp F de Lautagne (Valence, Drôme)

**22. Speaking of the dead. Chairs: Vince Van Thienen & Sofie Vanhoutte**

**Vince van Thienen**

Introduction

**Sofie Vanhoutte**

The late Roman coastal fort at Oudenburg (Belgium): from reassessment of new and old burial data towards new ideas on ...

**Sofie Vanhoutte/ Vince van Thienen**

Late Roman graves of the Vieuxville cemetery (province of Liege, Belgium)

**Mateja Ravnik**

Late Roman funerary customs and grave goods on the burial ground at Kozolec (Emona/ Ljubljana, Slovenia)

**30. The Pontic, Middle East and North African Chairs: Michael Alexander Speidel, Radosław Karasiewicz-Szczypiorski, Emzar Kakhidze & Piotr Jaworski**

Introduction

**Maciej Czapski**

Roman watchtowers' system in the light of works of polish moroccan mission Tingitana Frontier Project

**Jose Angel Exposito Alvarez**

Leisure facilities at the borders. The baths of the roman castellum of Tamuda (Tetouan, Morocco)

**Ran Ortner**

The Location of the Base of The Legio X Fretensis in Jerusalem after 70 A.D.

COFFEE BREAK

# FRIDAY, AUGUST 26

**LUNCH BREAK  
12:10 - 13:30**

13:30

13:50

Lindenbergsaal

Steigerzaal

Karolingenzaal

Red Room

Yellow Room

Blue Room

**10. Tales of Glory. Narratives of Roman Victory Chairs: Martina Meyr &**

**Julie Machand & Joachim Le Bomin**

The painted iconographic programm of Deir el-Atrash fort: Roman control, protection and military presence in the Egyptian Eastern desert

**Eva Steigberger**

My face and the Wolf song

**12. Legionary fortresses along the Rhine. State of research Chairs:**

**Daniel Burger-Völlmecke**

Das Legionslager von Mogontiacum/Mainz – Neue Erkenntnisse zur Umwehrung und Chronologie

**Klaus Kortüm**

Rottweil – Ein flavisches Legionslager am oberen Neckar

**11. Roman military activities during the Republic. Chairs: Janka**

**Romain Andenmatten**

Roman troops in high mountains / The challenge of establishing Roman hegemony in the Poenine Alps

**Domagoj Perkic**

Archaeological Traces of the Roman Attack of Grad at Nakovana during Octavian's Illyrian War (Pelješac, Croatia)

**22. Speaking of the dead. Chairs: Vince Van Thienen & Sofie**

**Rebecca Nashan**

Challenging late antique chronology – graves as indicators of continuity

**Julie Flahaut**

The late Roman grave of the children of the triarch Domitianus at Boulogne-sur-Mer: A re-interpretation

**30. The Pontic, Middle East and North African Frontier Chairs:**

**Mark Hassler**

Two Roman Military Conquests at Khirbet el-Maqatir, Israel: Archaeological Findings from the First and Second Jewish Revolts against Rome

**Eckhard Deschler Erb**

Tel Shalem – a roman military camp in the Jordan valley

14:10

14:30

14:50

*& Christof Flügel*

**David Breeze**

Commemorating the Dead

**David Breeze**

Discussion of the session results

*Jürgen Trumm & Steve Boedecker*

**Jürgen Trumm**

Vindonissa and its legionary  
fortress – state of the research

*Istenic & Angel Morillo Cerdan*

**Domagoj Tončinić**

Neue Beweise römischer  
militärischer Aktivitäten zwischen  
den Flüssen Krka i Cetina  
(Dalmatien, Kroatien)

**Janka Istenic & Bostjan  
Laharnar**

Ulaka–Nadleški hrib site complex  
in Loška dolina valley (south-  
western Slovenia)

*Vanhoutte*

**James Dodd**

Foederati and the villa  
landscape? small-scale burials  
in Germania Secunda in Late  
Antiquity

**Steven Vandewal**

Solitary and deviant burials in  
late Antique Tongeren

*Radosław Karasiewicz-Szczygiorski, Emzar Kakhidze & Piotr Jaworski*

**Victor Humennyi**

Fearing the Parthian threat?  
Pontic-Cappadocian frontier area  
and Flavian military policy in the  
East

**Piotr Jaworski**

Legio X Fretensis in Colchis?  
Latest numismatic evidence from  
the Roman fort in Apsaros

COFFEE BREAK

# FRIDAY, AUGUST 26

15:20

15:40

16:00

16:20

Lindenbergaal

Steigerzaal

Karolingenzaal

Red Room

Yellow Room

Blue Room

## 25. *The military vicus. Everyday life in the vicinity of the forts* Chairs: Julia Chorus & Monica Dütting

Introduction

**Eric Sponville**

Zwischen Lararium und Tempel. Ein Privatheiligtum im Nordvicus von Krefeld-Gellep

**Dorit Engster**

Vulcan, Neptun und Hercules: Götter der Arbeitswelt und ihre Verehrung im Vicus

**Juan Manuel Bermúdez Lorenzo**

Where is this amphora going? Differentiating Roman trade possibilities through vicus and camps supply

## 13. *Childhood on the Roman frontiers* Chair: Maureen Carroll

**Maureen Carroll**

Introduction

**Alexander Meyer**

Onomastics, Children, and Identity on Roman Military Diplomas

**April Pudsey**

The sons of Auxiliary veterans in Roman Egypt: family, status, and experience

**Maureen Carroll**

Gendered Futures? Children's lives cut short and commemorated on the Roman Frontiers

## 22. *Speaking of the dead.* Chairs: Vince Van Thienen & Sofie Vanhoutte

Panel Discussion

Panel Discussion

Panel Discussion

## 30. *The Pontic, Middle East and North African Frontier* Chairs: Michael Alexander Speidel, Radosław

**Radosław Karasiewicz-Szczypiorski**

Apsaros Fortress and its surroundings in the 1st and 2nd century AD. The first steps to reconstruction

# AFTERNOON

16:40

17:00

## Social Events

**Poster session  
Expo Room  
17:30**

### **Lennart Schoenemann**

The early-Roman military vicus of Speyer (Rhineland-Palatinate, Germany) – first results

### **Tony Wilmott**

The Birdoswald Extra-Mural Settlement Project

### **Kelsey Madden**

Vulnerable Victims: Barbarian Children in Roman Conflict Iconography

**Daily Recap  
Lindenberg Foyer  
17:30**

*Karasiewicz-Szczypiorski, Emzar Kakhidze & Piotr Jaworski*

# SATURDAY, AUGUST 27

	09:00	09:20	09:40	10:00
Lindenbergsaal	<b>28. Revisiting Roman imports</b> <i>Chairs: Thomas Schierl, Fraser Hunter, Szilvia Bíró &amp; Thomas Grane</i>			
	Introduction	<b>Hannes Buchmann</b> Luxury or resources? Roman objects in Germanic settlements – on the example of Ostwestfalen-Lippe	<b>Balázs Komoróczy</b> Dealing with changes of qualitative and quantitative aspects of the imported Roman metal objects within the Marcomannic...	<b>Stanislav Sofka</b> Spatio-temporal patterns and interpretation possibilities of Roman pottery in the barbarian context of the Middle Danube region
Steigerzaal	<b>27. Brickyards of the Roman Army</b> <i>Chairs: Eckhard Deschler-Erb &amp; Clarissa Agricola</i>			
	Introduction	<b>Rüdiger Schwarz</b> From loam to kiln, from clay to tile – making Roman ceramic building materials the whole way	<b>Tomas Janek</b> Roman military manufacture of tegulae: the production techniques and their transfer	<b>Craig Harvey</b> Just another brick (Kiln) in the Wall? The newly discovered brickyard at Vindolanda and its relevance to brick production along Hadrian's wall
Karolingenzaal	<b>5. Feeding the frontier.</b> <i>Chair: Laura Kooistra</i>			
	Introduction	<b>Steve Matthews</b> Who were the logisticians? The men responsible for feeding the limes garrison	<b>Peter Guest</b> Feeding the Roman army in Britain: Animal supply networks on the frontiers	<b>Sonja Vuković</b> Feeding the army at Viminacium legionary fortress: preliminary zoarchaeological evidence
Red Room	<b>35. New research Dacia</b> <i>Chair: Dr. Rada Varga</i>			
	Introduction	<b>Felix Marcu</b> A battlefield of the Dacian Wars	<b>Zsolt Visy</b> Die Ausdehnung und die Grenzen der Provinz Dakien	<b>Rada Varga</b> The Batavian riders of Roman Dacia: between ethnic and cultural identity
Yellow Room	<b>37. Roman Britain</b> <i>Chair: Dr. Tanja Romankiewics</i>			
	<b>Amanda Hardman</b> The integration of public baths into post-military Colonia and Civitas capitals in Roman Britain	<b>Pete Wilson</b> Dying outside the gates	<b>Tatiana Ivleva</b> An academic versus a craftsperson: A story of ups and downs in making replicas of Romano- British glass bangles	<b>Alessandro Pace</b> Game as cultural bridging. The case of the Batavians at Vindolanda
Blue Room	<b>29. Cult &amp; religious practices</b> <i>Chair: Dr. Ivan Radman-Livaja</i>			
	Introduction	<b>Anton Ye Baryshnikov</b> Of pigs and borders: lost in translation, found in interpretation?	<b>Ozren Domiter</b> The Danube Horsemen Cult	<b>Ivan Radman Livaja</b> A puzzling votive inscription by an officer of the cohorts I Belgarum



10:20      10:50      11:10      11:30      11:50

**28. Revisiting Roman imports** Chairs: *Thomas Schierl, Fraser Hunter, Szilvia Bíró & Thomas Grane*

**Karen Murad**

Asking 'why': exploring motivations behind the movement of Roman goods and concepts into Ireland

**Marcus Ady Roxburgh**

The shadow in the North; the influence of Roman metal exports on eastern Baltic communities

**Suzana Matešić**

Germani ite domum? Indications for transfer and Germanic reception of Roman military equipment

**Anna Flückiger**

Hackbronze and Money. Two sides of the same coin on both sides of the Limes?

**27. Brickyards of the Roman Army** Chairs: *Eckhard Deschler-Erb & Clarissa Agricola*

**Tim Clerbaut**

The military brickyard of Xanten: research history and a current status quo

**Michelle Rossa**

Ziegelproduktion im Norden von Köln – Die Römische Ziegelei von Feldkassel

**Ljubomir Jevtovic**

Who built the Castra Legionis in Viminacium?

**Alexandru Flutur**

The Brickyards of Legion IIII Flavia Felix from Dacia by early 2nd century AD

**Janusz Reclaw**

Brickyards of Legio I Italica

**5. Feeding the frontier.** Chair: *Laura Kooistra*

**Jana Kopáčková**

Material traces of viticulture in Southern Pannonia

**Brigitta Hoffmann**

Say "Cheese" – trying to identify dairy production tools and sites around Roman military sites

**35. New research Dacia** Chair: *Dr. Rada Varga*

**George Cupcea**

Revealing the function of a building through inscriptions: the case of the carcera in the fortress of Apulum, Dacia

**Adjournment**

**37. Roman Britain** Chair: *Dr. Tanja Romankiewicz*

**Rob Collins**

Vallum via Castell: Insights into Hadrian's Wall via re-used Roman stone fabric in medieval castles

**Matthew Hobson**

New fieldwork discoveries on Hadrian's Wall

**Ian Kille**

The Selection of Geological Material for Hadrian's Wall

**Tanja Romankiewicz**

Military construction strategies on the Limes: new insights from geoarchaeology

**29. Cult & religious practices** Chair: *Dr. Ivan Radman-Livaja*

**Kelly Gilliking Schoueri**

Home is where the aedes is. Simulating Roman military identity and loyalty in locations of transition

**Adjournment**

# CLOSING SESSION

Lindenbergzaal / video transmission in the Steigerzaal

08:30

**LUNCH BREAK**

13:30

**Closing Speech with directions for Congress Proceedings**

**Announcement of the Awards: Best Paper Under 35 and Best Poster**

**From Rome to the Limes, from the Limes to Rome**

**Presentation of the 26th Limes Congress**

**Questions & Discussion**

**Vote of Thanks: Rebecca Jones, & Andreas Thiel**

17:30

**CLOSING DINNER PARTY**

Please note that some titles of papers might be shortened due to lack of space.

# POSTER SESSION

Poster sessions are held on Sunday, Monday, Wednesday and Friday in the Expo room from 17:00 to 17:30 hours. The authors of the posters will be available for presentation and questions.

## 1. Nick Hannon, Historic Environment Scotland

Historic Environment Scotland have undertaken a programme of geophysical survey at 10 locations along the frontier, the poster aims to report some of the highlights from this work and discuss the implications of these results.

## 2. John Salvatore, JPS Heritage Services

**Co-Author: Stephen Kaye**

Relative Sea Level change since the mid-1st century AD places limits on the locations of Roman ports on the River Exe. Supplies from Northern Gaul, destined for the Neronian legionary fortress at Exeter and its dependent civilian sites, can be demonstrated to have been unloaded downriver from the fortress location

## 3. Igor Vukmanić, The Archaeological Museum in Osijek

**Co-Author: Branko Mušič, GeArh d.o.o.**

Inbetween 2018-2020 archaeogeophysical surveys were conducted in Popovac, Croatia. On site, GPR and Magnetometry research revealed the plan of an early 4th C. Roman locality. Curtain wall with a number of towers, gate and buildings in the interior could be recognized. However, interpretation of the site remains speculative. Was it a Fortification, a Palace, an Imperial Estate or else?

## 4. Author: Thomas Edward Birch, Archaeological Science and Conservation, Moesgaard Museum

**Co-Author: Michelle Taube, Environmental Archaeology and Materials Science, The National Museum of Denmark**

**Co-Author: Mads Leen Jensen, Museum Sønderjylland**

**Co-Author: Thomas Grane, Research, Collections and Conservation, The National Museum of Denmark**

Materialising Roman Diplomacy – Using archeometallurgy to identify long-distance contacts or close encounters at the time of Augustus.

The arrival of Roman objects in Jutland and neighbouring islands marks the beginning of the Roman Iron Age in Denmark. They attest to the first interactions with the Roman world, an important moment, the transition from prehistory

to history. The nature of this contact, however, remains to be fully understood. Some objects could have found their way to Denmark indirectly via various exchange routes. However, there is reason to believe that the first items arrived as the result of direct interactions with Roman groups. Using Roman bronze vessels as a proxy for contact, this project provides a means to test the nature of these earliest interactions with the Roman world, demonstrating whether some might be the result of direct contacts. Chemical and isotopic analyses will be used to determine whether this group of objects, including one prestigious iconic type (Eggers 92) found in multiple burials, are materially related (or indeed the same). Should the results confirm these bronzes to be identical, they may bring to life in material form a single diplomatic gift event as part of the first historical Roman naval expedition to Jutland instigated by General Tiberius in AD 4/5, who shortly after became Emperor of the Roman Empire.

## 5. Author: Kira Lappé, University of Vienna

**Co-Author: Michael Wagreich, University of Vienna**

This new project investigates the urban transformation from the Roman legionary camp of Carnuntum to Vienna's peri-urban areas. Combining archaeological, historical, geological and GIS-methods, the research focuses on the contrasting development of the two sites and their manifold relations over time, based on the classification, thickness, distribution and growth of anthropogenic layers.

## 7. Author: Hana Ivezić, Archaeological Museum in Zagreb

**Co-Author: Jana Kopackova, Archaeological Museum in Zagreb**

The ongoing revision of old AMZ collections allowed us to (re)discover finds from the Danube limes which are currently being catalogued as a first step towards publication. This poster aims to fill a research gap by providing a preliminary overview of hundreds of unpublished finds from Rittium (Surduk).

# POSTERS

## **8. Paul Kitching, Durham University**

Raising Terror: Deterrence and the Building of Hadrian's Wall. This new research project examines a deterrence reading of Hadrian's Wall, alongside well-known interpretations. A hypothesis-testing methodology will systematically explore the construction of the archaeological evidence and its relationship with multiple working hypotheses, highlighting inconsistencies and generating new avenues for research.

## **9. Silke Lange, BIAx Consult**

**Co-Author: Esther Jansma, Rijksdienst voor het Cultureel Erfgoed**

In recent years, more and more knowledge has been gained about the road and waterworks that formed the basis of military transport of troops and goods. Without wood, the construction of roads, bridges, quays and revetments would not have been possible. Research into construction timber has produced data that sheds light on the logistics of timber exploitation, the distribution of timber and the organisation of construction sites.

## **10. Katie Mountain, Pre-Construct Archaeology**

**Co-Author: Marta Alberti, Vindolanda Trust**

To be published in May 2022 in print and as a free Open Access download, our co-edited volume aims to project the World Heritage Site (WHS) of Hadrian's Wall into the future by providing a unique 'forward-looking' approach and encouraging a more open, inclusive debate on the Cultural Resource Management of Hadrian's Wall. The papers discuss critical new issues such as the impact of environmental changes and the innovative technologies used in monitoring and managing the Wall.

This volume highlights not only the ways in which Hadrian's Wall can be protected for future generations, but also the ways in which it affects the identities of those who work and travel along it. Authors include prominent frontier scholars and excavators, early career researchers, museum curators, living history practitioners, tour guides and business owners – all of whom are vital in the management of the future of Hadrian's Wall.

## **11. Ján Rajtár, Archaeological Institute of Slovak Academy of Sciences**

**Co-Author: Margaréta Musilová, Municipal Monument Preservation Institute, Bratislava**

Geophysical prospection of the Iža fort (Slovakia), bridgehead of the Pannonian Brigetio (Hungary). After the Marcomannic Wars, a stone fort in Iža was built, as a bridgehead of Brigetio. Rescue excavations were concentrated on the fortification. The inner build up area was known only from the excavation before the WWI. The georadar prospection brought informations about its structure. Recent sonar surveys in the Danube indicate a Roman bridge construction.

## **12. Balázs Komoróczy, Institute of Archaeology Czech Academy of Sciences, Brno**

**Co-Author: Pavla Růžičková, Institute of Archaeology Czech Academy of Sciences, Brno**

**Co-Author: Marek Vlach, Institute of Archaeology Czech Academy of Sciences, Brno**

Abstract of Poster: Mušov – Gateway to the Roman Empire. The poster presents the new Visitor Center at the most important Roman site on the Marcomannian settlement territory, at Mušov-Burgstall, and the current state of presentations of the Roman army on the territory of today's South Moravia.

## **13. Jagoba Hidalgo-Masa, Universidad del País Vasco/Euskal Herriko Unibertsitatea (UPV/EHU)**

The Roman conquest of Hispania (218-19 BC) ended with the Cantabrian Wars, between the Cantabrians and the Romans, in which the Basque Country (Iberian Peninsula) played the role of the eastern rearguard, which the empire had to secure, but how did the empire control and organise this rearguard?

## **14. Piotr Zakrzewski, Polish Centre of Mediterranean Archaeology University of Warsaw**

**Co-Author: Paweł Lech, Polish Centre of Mediterranean Archaeology University of Warsaw**

Abstract of Poster: The poster presents benefits of the re-evaluation of old documentation by applying interdisciplinary methods in multi-layer GIS study of Novae archaeological site. The study resulted in comprehensive recognition of the site's landscape and helped to determine the sources of changes and possible threats.

**15. Sandra Schröder-Spang, Römisch-Germanische Kommission des Deutschen Archäologischen Instituts**

**Co-Author: Constanze Berbüsse, Römisch-Germanisches Zentralmuseum**

On the traces of former scholars– The biographical Informationssystem Propylaeum-VITAE. Propylaeum-VITAE records biographical data, research interests and personal networks of people who have contributed to archaeology and the ancient sciences. The online-database also provides information on archival records as for example records of the Reichs-Limes-Kommission which give insights into the cooperation between various actors at the Limes. Using the example of archaeologists at the Limes, the functions and benefits of this online platform are presented.

**16. Tamara Vernimmen, ADC Archeoprojecten**

**Co-Author: Stephan Mols, Radboud University**

**Co-Author: Jeroen Loopik, ADC Archeoprojecten**

(Em)bedding the Romans. Analyzing fragments of a north-western style Roman bed in the vicus of Weerdkampen, Valkenburg North Holland (The Netherlands). Among the well-preserved wooden finds from Weerdkampen (124-315 A.D.), a vicus located near the Limes at Valkenburg North Holland, two pieces really stand out: fragments in oak and boxwood of a bed or couch, made on a lathe. Although the wood may be imported, the style does not breathe 'Rome'.

**17. Brahim M'Barek, Eveha / HALMA-UMR 8164 research centre, France**

**Co-Author: Nicolas Beaudry, Université du Québec à Rimouski, Canada**

**Co-Author: Dominic Moreau, Université de Lille / HALMA-UMR 8164 research centre, France**

Abstract of Poster: The covered cistern of Zaldapa (Bulgaria): the extramural water supply of a late antique fortress. Excavation on the ramparts of Zaldapa revealed in 2021 a postern and stairs that appear to provide a protected access to an outer cistern below. This poster discusses this extramural water supply in the light of the few examples known from late antiquity.

**18. Silvia Bekavac, University of Zadar, Department of Art History**

**Co-Author: Željko Miletić, University of Zadar, Department of Archaeology**

Testimonies of the Legio VIII Augusta in Burnum. The stationing of LEG VIII Augusta vexillatio in Burnum on the Delmatian Limes was logistical preparation for Emperor Trajan's journey into the 2nd Dacian War. A stationing in Burnum was confirmed by episodes on Trajan's Column, tombstones and stamps on tegulae.

**19. Petya Andreeva, Austrian Archaeological Institute of the Austrian Academy of Sciences**

The completed rescue excavation project provides one of the few opportunities to obtain information on the structure, stratigraphic sequence and chronological phases of a large open-air settlement in the hinterland of Novae, bringing to light thought-provoking questions about development of the settlement pattern and its connection with the legionary fortress.

**20 Ștefania Dogărel, "Babeș-Bolyai" University, Cluj-Napoca, Romania**

Wives, daughters, mothers, mothers-in-law or nieces, all appear in Dacian epigraphy, providing us with a glimpse into the family relations of the soldiers. They mostly lived anonymous lives, usually in the shadow of men; however, their presence is undeniable and proves once more that the army was not isolated from social relations.

**21. Author: Rebecca Jones, Historic Environment Scotland**

**Co-Author: Scott Heron, James Cook University, Australia**

**Co-Author: Jon Day, James Cook University, Australia**

**Co-Author: Ewan Hyslop, Historic Environment Scotland**

The Antonine Wall: World Heritage Climate Vulnerability. Climate Change is the biggest threat to World Heritage globally. This will present the results of a Climate Vulnerability Index workshop on the Antonine Wall looking at:

- key climate drivers
- building on previous risk assessments (slope instability, flooding)
- inherent risk in the face of climate trends
- adaptive capacity of the local community.

# POSTERS

## **22. Ivana Ozanic Roguljic, Institute of archaeology, Zagreb, Croatia**

**Co-Author: Angelina Raickovic Savic, Institute of archaeology, Beograd, Serbia**

### **Vessels with the handle above the opening from Lower Pannonia and Upper Moesia.**

In this paper, we will try to determine the function of the specific vessels that have a handle above the opening. Such containers are found in several sites on limes, e.g. Teutoburgium and Viminacium, and in urban and rural sites. During the research of Viminacium, pots with handles that cross the upper side of the rim are found at several locations. In addition to the settlement layers, they are most numerous in the amphitheatre. We distinguish three types of such pots. All are made of medium refined clay in grey or red color. Their outer surface is polished, in the case of grey specimens, and in the case of red ones, it is coated with tones of red slip. Two vessels are found in a well of a rural site (Liskovac near Cibalae). The context of the finds in Viminacium date to 2/3 of the 3rd century, while the context from Liskovac is dated to the end of 1st CE to the beginning of the 2nd CE. The origin of the form can be found in the prehistoric and Hellenistic world, but its function is yet to be established. The most interesting thing about them is that a great number of them were found in wells, which could mean to us that they could be used to extract water. Using the experiment, data from the excavations, literary sources and ethnographic data, we are going to try to propose the function of those vessels.

## **24. Amy Baker, Newcastle University**

**Co-Author: Angelina Raickovic Savic, Institute of archaeology, Zagreb, Croatia**

The status of metalsmiths in the Roman provincial army is underconceptualised. This research

- gathers military metalworking data from Scotland
- examines the smith's position through the lens of early medieval smithing
- finds that smiths may have different experiences within their communities depending on the metal worked and the spaces operated in.

Casting the smith in a new light: situating the evidence for smithing in first and second century Roman Scotland in its social context. The evidence for the role and status of metalsmiths in the Roman provincial army is underconceptualised. An analysis of the position of metalworkers in military communities in Roman Scotland in the first and second centuries through the processes of metalworking, the craftsman's physical space in military settlements, the tools used, and the debris created aimed to correct this.

Prehistoric and early medieval archaeology have embraced social theories of technology, making considerable effort to place the practice of craft, including metalworking, in their social context. These avenues of exploration are underused in Roman archaeology, however, where there tends to be a focus on utilitarian descriptions of craft, and assumptions made about what status and skills those participating in it might have. Critically examining the socio-cultural significance of metalsmiths within military communities in Roman Scotland through the lens of smithing in the early medieval period in northern Europe therefore develops a new theoretical understanding of the position and identity of this figure.

A comprehensive finds database from published excavation reports and basic mapping find that smiths may have different experiences and status within their communities depending on the metals they worked and the spaces in which they operated. These could potentially confer differing levels of control both by and of the smith, and influence, both formal and informal, through public and private spheres. Evidence for ritual dimensions to the role and work of the smith were also potentially identified through space and activity. Although the study is of a limited time span and geographic area, it provides some thoughts for future examination of a figure underrepresented in discussions of the Roman army to date.

## **25. Esperanza Martín-Hernández, Dolabra Arqueología,**

**Co-Author: Jorge Camino-Mayor, Principado de Asturias**

The Cantabrian Wars: Roman equipment recovered in La Carisa

The war undertaken by Augustus to complete the conquest of northern Hispania (whose remains have been uncovered by archaeology investigations in recent years), had one of its main theatres of operations in La Carisa, one of the ranges of the Cantabrian Mountains that penetrates through the centre of the lands of the Astures. Three castra aestiva located at high altitudes along its route bear witness to its importance and were used in successive Roman war campaigns. These Roman camps are also linked to a strategic via which runs from the Duero valley to the sea, crossing the Cantabrian Mountains at an altitude of almost 2,000 m. It is significant that it maintains the name of Publius Carisius, the Roman legatus who, between 26-22 BC, commanded the army against the Astures, and which was also founder of the city of Augusta Emerita. The hundreds of objects recovered during the archaeological research of this area not only support the importance of the Roman military deployment, but also constitute an abundant and varied display of the equipment used by the troops on the field. This paper will describe selected pieces that have been identified, providing information on weaponry, tools, various items of equipment, costume components and an expressive monetary collection. At the same time, we'll make a comparison with the finds made in other theatres of the war of conquest, both in the Astur and Cantabrian contexts, which make up a spectacular set, displaying the state of the Roman army during the Principality of Augustus, previously scarcely known.

# SPECIAL THANKS TO

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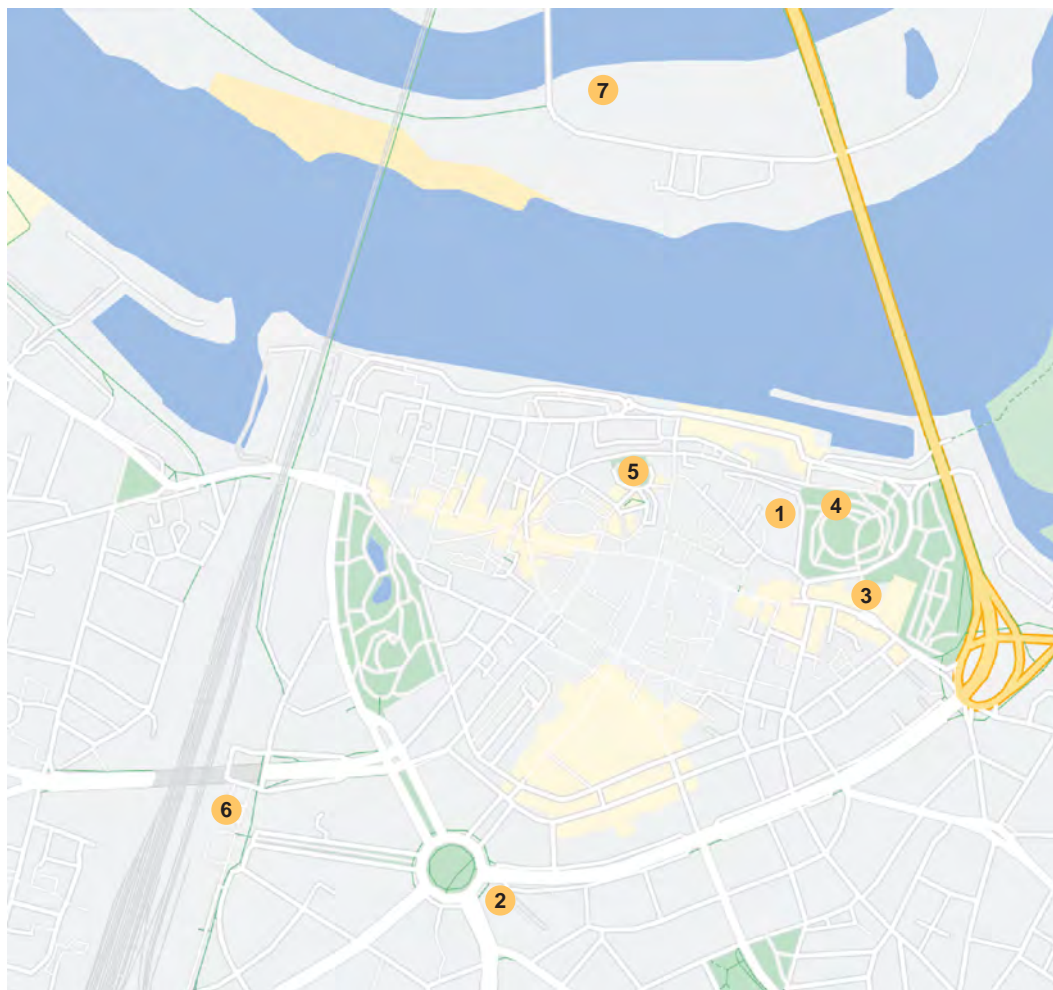
PROVINCIE :: UTRECHT



NEDER-GERMAANSE  
NIEDERGERMANISCHER  
LOWER GERMAN  
**LIMES**

**museum**  
**het valkhof**  
**nijmegen**

# MAP OF NIJMEGEN



1

Congress Venue The Lindenberg  
Ridderstraat 23, 6511 TM Nijmegen

4

Valkhof Chapel  
In Memoriam  
Voerweg 1, 6511 RT Nijmegen

7

"Face of Nijmegen"  
Roman Mask Statue  
Oosterhoutsedijk 26,  
6663 KT Nijmegen

2

De Vereeniging  
Welcoming reception  
Keizer Karelplein 2D, 6511 NC Nijmegen

5

Restaurant De Hemel  
Closing Dinner Party  
Franseplaats 1, 6511 VS Nijmegen

3

Museum Het Valkhof  
Tour and Drinks  
Kelfkensbos 59, 6511 TB Nijmegen

6

Nijmegen train and bus station  
[www.ns.nl](http://www.ns.nl) (train)  
[www.9292.nl](http://www.9292.nl) (bus and train)