

Archaeological Iron Conservation Colloquium

State Academy of Art & Design Stuttgart

24th to 26th June 2010

Stuttgart

PRE-CONFERENCE PROGRAMME // Wednesday, 23 June 2010

Stuttgart academy lecture in conservation

05.00 pm *David A. Scott*, Los Angeles (USA):
The Mysteries and Magic of Ancient Egyptian Pigments

06.00 pm registration open
Get-together drinks for delegates
Welcome address by the president of the academy,
Prof. Dr. Ludger Hünnekens

CONFERENCE DAY I // Thursday, 24 June 2010

08.30 am registration open

09.00 am *Gerhard Eggert*, Stuttgart (D):
Introduction to the conference

09.25 am *Eric Nordgren*, Newport News (USA):
Welcome from AIAE

Session I: iron conservation science
CHAIR: Gerhard Eggert

09.30 am *Katharina Schmidt-Ott*, Zurich (CH):
Plasma-reduction, its potential and limits in the conservation of metals

10.00 am *Britta Schmutzler*, Stuttgart (D):
The chloride left behind: (dis)solving an analytical problem

10.30 am **coffee break / poster discussion**

11.00 am *David Thickett*, London (UK):
The formation and transformation of akaganéite

11.30 am *Quanyu Wang*, London (UK):
Unusual corrosion products of iron

12.00 pm *Céline Rémazeilles*, La Rochelle (F) :
Metastable iron sulphides as corrosion products of iron archaeological objects

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- 12.30 pm ***lunch break***
- 01.15 pm **a short walk into architectural history - the Weißenhofsiedlung**
(Optional, sign up at registration)
- Session II: iron conservation projects around the world**
CHAIR: Andrea Fischer
- 02.00 pm *Olimpia Muresan, Oradea (RO):*
About corrosion and conservation problems of iron artefacts from Oradea Fortress
- 02.30 pm *Tobias Friedrich, Cologne (D):*
The Cucagna Conservation Project - Conservation of archaeological finds and conservation research in Friaul
- 03.00 pm ***coffee break***
- 03.15 pm *Rose Johnson, London (UK)*
Iron from London's waterlogged sites: Assessing the outcomes of treatment and passive storage
- 03.45 pm *Cristina Mazzola, Munich (D)*
The KUR-project "Large quantity finds in archaeological collections"
- 04.15 pm *Manako Tanaka, Tokyo (J)*
Metallurgical properties of steel used in a Japanese matchlock gun
- 04.45 pm ***end of session, transfer to Esslingen am Neckar by rail***
- 06.00 pm ***city-walk through the old city of Esslingen***
- Keynote Lecture** (at Salemer Pflughof, Esslingen)
- 07.00 pm *David A. Scott, Los Angeles (USA):*
Iron and the microscope
- 08.00 pm ***conference dinner*** (25 EUR, free for speakers)
Welcome Address by Dr. Joerg Bofinger, LAD Baden-Wuerttemberg

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CONFERENCE DAY II // Friday, 25 June 2010

Session III: alkaline chloride extraction

CHAIR: Vasilike Argyropoulos

09.30 am *Heinrich Wunderlich*, Halle (D):
Efficiency of chloride extraction with organic ammonium bases: the KUR-Project
"Conservation and professional storage of iron artefacts"

10.00 am *Paul Mardikian*, Charleston (USA):
The use of subcritical alkaline solutions for the stabilization of archaeological iron artefacts

10.30 am **coffee break / poster discussion**

11.00 am *Svetlana Burshneva*, St. Petersburg (RUS):
Some new advances in alkaline sulfite treatment of archaeological iron

11.30 am *Melanie Rimmer*, Cardiff (UK):
The effectiveness of chloride removal from archaeological iron using alkaline deoxygenated desalination treatments

12.00 pm *Britta Schmutzler*, Stuttgart (D):
Simplifying sodium sulphite solutions – the DBU project

12.30 pm **lunch break**

Session IV: marine finds

CHAIR: Paul Mardikian

02.00 pm *Florian Kergourlay*, Gif/ Yvette (F):
Effect of dechlorination in NaOH of iron archaeological artefacts immersed in sea water

02.30 pm *Stephane Lemoine*, Nantes (F):
Evolution of pH in the solutions of dechlorination

03.00 pm *Eric Nordgren*, Newport News (USA):
Conservation of iron artefacts from the USS *Monitor* (1862)

03.30 pm *Kenya Brown Fusciello*, Maryland (USA):
Retreatment of archaeological irons temporarily submerged in brackish floodwaters

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04.00 pm *end of lecture programme, coffee*

04.45 pm *AIAE member meeting*

Poster Session:

Posters will be on display during both lecture days. In the morning coffee breaks, authors will be available at their posters for discussion. Presenters:

Andrea Fischer, Stuttgart (D):

Identification of organic remains on iron finds using variable pressure Scanning Electron Microscopy (SEM)

Andrea Fischer, Stuttgart (D):

The laboratory processing of block-lifted finds from graves

Maria Giannoulaki, Athens (GR):

The iron collection of Ancient Messene: a methodological conservation approach

Charlotte Kuhn, Stuttgart (D):

Freezing corrosion - a viable storage option?

Paul Mardikian, Charleston (USA):

Metal 2010: ICOM-CC WG 'Metals' Interim Meeting in Charleston, South Carolina from Oct. 11-15, 2010

Eric Nordgren, Newport News (USA):

Archaeological Iron After Excavation (AIAE) – working group within the ICOM-CC Metals Working Group

Martina Raedel, Berlin (D):

Corrosion protection without red lead: A contradiction in terms?

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EXCURSION DAY // Saturday, 26 June 2010

- 08.30 am **start by bus from Stuttgart, central station**
- 09.30 am city walk in the old city of 'Schwäbisch Gmünd'
- 10.30 am guided tour in the old silver tableware factory 'Ott-Pauser'
- 11.30 am fem Research Institute for Precious Metals & Metals Chemistry
Welcome by the Director, *Dr. Andreas Zielonka*
Institute tour including the computer tomograph

quick lunch

- 01.00 pm **guided tour at the 'Roman Limes'**
- 04.00 pm **end of tour at Stuttgart central station**

If you would like to attend the excursion, please be sure to mark it on your registration form!
Participation costs 25 Euro, transfer included.

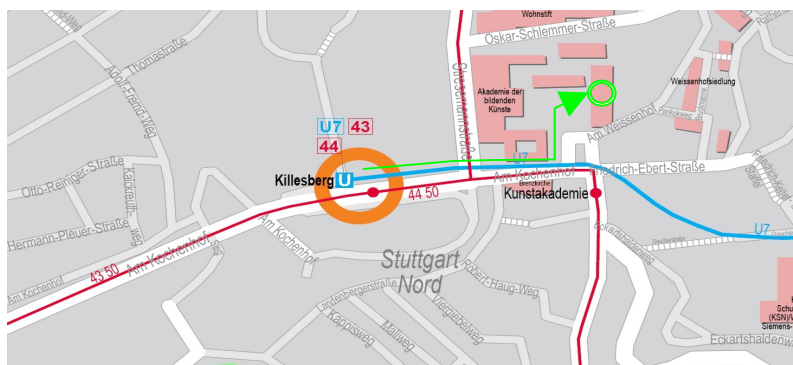
for accommodation information please see:

http://www.stuttgart-tourist.de/index_ENG.htm

<http://www.hotel.info/homepage.aspx?lng=EN>

Location Map

You can reach the Academy from the centre of Stuttgart easily by public transport (take the U7 line to the final destination 'Killesberg', trains running every 10 mins. It's just 3 stops, about 5 mins., from central station)



Venue Neubau II, Mehrzwecksaal (marked in the map with green cycle)

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