

DE AQUAEDUCTU URBS ROMAE

Sextus Iulius Frontinus and the Water of Rome



International Congress on the History of Water Management and Hydraulic Engineering in the Mediterranean Region
Rome, November 10 - 18, 2018

PRELIMINARY PROGRAMME

05.10.2018

Conference Hotel is the **MASSIMO D'AZEGLIO**, Via Cavour 18, I – 00184 ROME

10.11.2018, Saturday

Arrival and Registration

15:00 Registration at the hotel

18:30 Welcome Cocktail at the hotel

19:30 **OPENING OF THE CONFERENCE**

Welcome and Introduction/Information: **Dipl.-Ing. Gilbert WIPLINGER**

Greetings: **Prof. Dr.-Ing. Hans MEHLHORN**, President of the Frontinus-society

20:00 **OPENING LECTURE**

01. **Anthony JENNINGS** - Italy, *Gods of Blood and Water*

11.11.2018, Sunday

08:00 - 18:00 Lectures

AQUEDUCTS OF ROME AND IN ROMAN PROVINCES

Chairperson: Ingrid HEHMEYER

- 08:00 **02. Donato CIOLI, Luca MESSINA, Maurizio PAGANO, Marco PLACIDI, Riccardo RIBACCHI** – Italy, *In the Footsteps of Ashby: Colle Papese in the Tivoli Area*
08:30 **03. Maria Grazia CINTI** – Italy, *The Aqua Alsietina: An Unknown Aqueduct with the Worst Water in Rome*
09:00 **04. Katja MARASOVIĆ, Jure MARGETA** – Croatia, *Study of the Aqueduct of Diocletian's Palace in Split*
09:30 **05. David Donald BOYER** – Australia, *The Aqueduct-Systems Serving Gerasa of the Decapolis*
10:00 Coffee break

Chairperson: Tsvika TSUK

- 10:30 **06. Florian TANZ** –Germany, „Da sie auch an Wasser Überfluß zu haben wünschten ...“ - Die Wasserversorgung des antiken Triers
11:00 **07. Vedat KELEŞ / Michael Deniz YILMAZ** – Turkey, *The Aqueduct Bridge of Parion and its Settling Tank*
11:30 **08. Gilbert WIPLINGER** – Austria, **Paul KESSENER** – The Netherlands, *Der vorrömisch/römische und byzantinische Şirince Aquädukt von Ephesos*
12:00 **09. Dennis MURPHY** – USA, *The Water System of Ancient Syedra*
12:30 Lunch at the hotel

ROMAN BATHS AND LATRINES

Chairperson: Paul KESSENER

- 14:30 **10. Gemma JANSEN** – The Netherlands, *Roman Toilets of the Capital City*
15:00 **11. Marina PIRANOMONTE, Bruno DE BENEDETTI, Alessio LO CONTE** – Italy, *The foricae of the Baths of Caracalla. A New Discovery*
15:30 **12. Vedat KELEŞ / Alper YILMAZ** – Turkey, *Preliminary Observations on the Roman Baths of Parion and their Water Systems*
16:00 Coffee break

FOUNTAINS – NYMPHAEA

Chairperson: Wolfram LETZNER

- 17:00 **13. Julian RICHARD** – Belgium, *Splashing Waters. Supply Devices and Water Effects in Roman Imperial nymphaea*
17:30 **14. Joseph PATRICH, Shlomit WEKSLER-BDOLAH** – Israel, *A Fountain of a Composite Herodian triclinium near the Temple Mount, Jerusalem*

18:30 - 19:30 FRONTINUS-MEDAL

Awarding of the Frontinus-Medal to Dr. Hubertus MANDERSCHIED

- 18:30 **Hans MEHLHORN** – Germany, Introduction by the president of the Frontinus-society
18.35 **Gemma JANSEN** – The Netherlands, *Laudatio*
18:55 **15. Hubertus MANDERSCHIED** – Italy, *Der Platz des Kaisers beim Bankett – von Wasser umgeben*
19:30 Awarding of the Frontinus-Medal by Hans MEHLHORN, president of the Frontinus-society
20:00 Gala-Dinner at the hotel

12.11.2018, Monday

08.00 – 12.00 Lectures

WATER INSTALLATIONS IN VILLAS AND HOUSES

Chairperson: **Julian RICHARD**

08:00 **16. Mark LOCICERO – The Netherlands**, *Moisture of a Kindred Quality: Ostia and the Roman Water Footprint*

08:30 **17. Hilke THÜR, Ingrid ADENSTEDT - Austria**, *Brunnen und hydraulische Anlagen in den Hanghäusern von Ephesos*

09:00 **18. Inge UYTTERHOEVEN – Belgium**, *„Pleasing to the Ear and Eye. The Role of Water in the Reception of Guests within Roman and Late Antique Houses of the Eastern Mediterranean*

09:30 Coffee break

CISTERNS AND RESERVOIRS

Chairperson: **Gemma JANSEN**

10:00 **19. Maria MONTELEONE – England**, *Defining Castella, Nymphaea, Reservoirs, Cisterns. The Relevance of the Hydraulic Operation and Frontinus' Water Balances*

10:30 **20. Patrik KLINGBORG – Sweden**, *Greek Cisterns: Use and Function from a Diachronic and Spatial Perspective*

11:00 **21. Tsvika TSUK, Iosi BORDOWICZ, Dror BEN-YOSEF – Israel**, *The Arch-reservoirs of Sepphoris – is this the castellum of the City?*

11:30 Lunch at the hotel

12:30 Study trip to the AQUA VIRGO from the spring to the end

(guided by **CRSA-Sotterranei di Roma**) departure with bus in front of the hotel

14:00 Caput Aquae in the Via Collatina/Via di Salone

14:30 Departure to the city center

15:00 Walk from Via Ludovisi to the Villa Medici behind Piazza di Spagna and visit of the gallery in groups of 15 persons

15:00 Half of the group is first visiting the big store Rinacente with remains of the Aqua Virgo

16:30 Walk from Piazza di Spagna to the Trevi Fountain (Fontana di Trevi), which is the endpoint of the Aqua Virgo, visiting the room with the Roman specus behind the fountain

17:30 Walk back to the hotel (approx. 30 minutes)

20:00 Reception at the Austrian Historical Institute of Rome (ÖHI)

Welcome by the Director Univ.-Doz. Dr. **Andreas GOTTMANN**

Lecture as introduction to the study trip on Tuesday:

22. Jens KÖHLER – Italy, *The Aqueducts of Rome: An Introduction*

Opening of the exhibition from

23. Kim ZWARTS – The Netherlands, *Aqua Claudia - Aqua Anio Novus, 1999* with introduction from Gilbert WIPLINGER, Gemma JANSEN and Kim ZWARTS

Reception

13.11.2018, Tuesday

07:30 Full day tour to the AQUEDUCTS OUTSIDE OF ROME

guided by **CRSA- Sotterranei di Roma**

1. Vicovaro:
Visiting the Galleries of Aqua Claudia and Aqua Marcia

12:00 Lunch in the Convento di San Cosimato

2. Aqueduct bridge Ponte della Bullica and gallery of the Aqua Marcia
3. Aqueduct bridge Ponte Sant'Antonio
4. Aqueduct bridge Ponte della Mola and walk to the Ponte San Pietro
5. Aqueduct bridge Ponte San Pietro
6. Aqueduct bridge Ponte Lupo, the most impressive one of the bridges

20:00 Reception at the John Cabot University (JCU)

Welcome by the president PhD **Franco PAVONCELLO**

Lecture 1: **24. Ya'kov BILLIG – Israel**, *Recent Excavations along the High-Level Aqueduct to Jerusalem and their Contribution to the Research of Jerusalem's Water Supply*

Lecture 2: **25. Ünal ÖZİŞ – Turkey**, *Parallels in the Water-Conveyance Systems to Rome and İstanbul in two Millennia*

Reception

14.11.2018, Wednesday

08:00 – 10:00 Lectures

HYDRAULIC ENGINEERING

Chairperson: **Dennis MURPHY**

08:00 **26. Paul KESSENER – The Netherlands**, *Frontinus and Direct Discharge*

08:30 **27. Constantin CANAVAS – Germany**, *Water Machines as Marvellous Constructions in Medieval Arabic Texts*

09:00 **28. Regula WAHL-CLERICI – Switzerland**, *Drainage of Roman Mines*

09:30 **29. Gül SÜRMEĻİHİNDİ, Cees PASSCHIER – Germany**, *Using Carbonate Incrustations of Water Supply Systems as a Key to Resolve Human Adaptions to Nature*

10:00 Coffee break

10:30 – 12:00 Poster Presentation

Chairperson: **Hans MEHLHORN**

01. Eduardo GAUTIER DI CONFIENGO, Elettra SANTUCCI – Italy, *Aqua Claudia and Anio Novus Distribution in Rome*

02. Marina PIRANOMONTE, Antonio RODI – Italy, *Aqua Virgo and the Modern City of Rome – a Historical Heritage to Defend*

03. Yasmina BENFERHAT – France, *Das Wassergefühl in trajanischer Zeit am Beispiel Tacitus und Plinius*

04. Silvia ORLANDI – Italy, *Public Baths in the 4th - 5th Century Rome: Between Popular Needs and Technical Language*

05. Giulia GIOVANETTI – Italy, *Water Supply and Usage in Private Baths of Late-antique Rome and Ostia*

- 06. Gary ROBBINS – USA**, *The Influence of Local Geology on Water System Development in Ancient Rome*
- 07. Jan LUBBERS – The Netherlands**, *Building Aqueducts of Ancient Rome without Surveying Instruments*
- 08. Richard OLSSON – Sweden**, *The Water Supply System in Roman Pompeii*
- 09. Charles ORTLOFF – USA**, *The Pont du Garde Aqueduct and Castellum: Insight into Roman Hydraulic Engineering*
- 10. Paola ZANOVELLO - Italy**, *Water Supply in the Pre-desert Areas of African Limes*
- 11. Peter KOWALEWSKI – Germany**, *De aquaeductu Urbis Romae auf antiken Münzen*

12:00 Lunch at the hotel

13:30 Study trip to the AQUEDUCT PARKS IN ROME

guided by **CRSA- Sotterranei di Roma** and **Jens KÖHLER**, departure with Metro Linea A to Sub Augusta station

- 14:15 Walk between the different Aqueduct bridges of Rome through the Public Parco degli Acquadotti, Via Tuscolana with Aqua Marcia, Tepula, Iulia, Felice and Aqua Claudia and Anio Novus and the Via Latina
- 15:15 Walk along the Aqua Claudia to the Parco di Tor Fiscale which is the famous crossing point of the two aqueduct bridges
- 16:15 Continuing the walk to Via del Mandrione
- 17:00 With Metro Linea A from Porta Furba/Arco di Travertino station back to the hotel

20:00 Reception at the American University of Rome (AUR)

Welcome by the Director Dr. **Richard HODGES**

Lecture 1 as introduction to the study trip on Thursday:

30. David CHACON, Jens KÖHLER – Italy, *New Research on the Aqua Alexandrina*

Lecture 2:

31. Paul GWYNNE – USA, *Poems and Pipelines: Neo-Latin Verse on the Fountains in and round Baroque Rome*

Reception

15.11.2018, Thursday

07:30 Study trip to the AQUEDUCTS IN ROME

guided by **Jens KÖHLER** and **Katelynn CUNNINGHAM**, walk from the hotel to the following places

1. Piazza Vittorio Emanuele with the Trofei di Mario, ruins of a fountain which was the endpoint of an aqueduct
2. Aqueduct bridge to the Trofei di Mario
3. Porta Tiburtina and walk along the Aurelian wall to
4. Porta Maggiore
5. Walk along the aqueduct of Nero to
6. The aqueduct of Nero in the Villa of the British ambassador's residence
7. Continuing the walk and passing San Giovanni in Laterano and the military hospital along the aqueduct of Nero which brought the water to the Palatine

11:00 The bus brings us from the Via della Navicella near S. Stefano Rotondo to the Parco della Mistica

12:00 Lunch in the restaurant "Il Mendicante", Via della Tenuta della Mistica

13:30 Study trip to the AQUA ALEXANDRINA

guided by **Jens KÖHLER** and **David CHACON**

Walk to one of the aqueduct bridges of the Aqua Alexandrina and by bus to the photostop at the highest bridge and to the

14:30 Aqueducts of the Aqua Marcia and Aqua Claudia in the Sport Centre of the Banca d'Italia

guided by **Antonio INSALACO**, we visit this highlight as continuation of the walk from Wednesday

18:00 Reception at the German Archaeological Institute of Rome (DAI)

Welcome by the Director Prof. Dr. **Ortwin DALLY**

Lecture 1: **31. Hans-Jürgen VOIGT - Germany**, *Quellen und Quellheiligtümer der Etrusker*

Lecture 2: **32. Ingrid HEHMEYER – Canada**, *The Urban Water Supply of Medieval Zabid, Yemen*

Reception

16.11.2018, Friday

07:00 Study trip to WATER BUILDINGS IN THE CITY OF ROME

08:00 **NYMPHAEA of the DOMUS FLAVIA and THE DOMUS AUGUSTANA**, Imperial palaces on Palatine Hill – guided by **Andrea SCHMÖLDER-VEITH**

10:30 **DOMUS AUREA and TRAJAN'S BATHS** – guided by **Heinz BESTE** and N.N.

13:00 Lunch in small restaurants around and on the way to Caracalla Baths

14:00 **CARACALLA BATHS** – guided by **Marina PIRANOMONTE** and **Jens KÖHLER**

17:30 Reception at the Koninklijk Nederlands Instituut Rome (KNIR)

Welcome by the Director Prof. Dr. **Harald HENDRIX**

03. Wilke SCHRAM – The Netherlands, *Groundwater as a Water Source for Thirsty Romans*

Reception till 20:00

17.11.2018, Saturday

07:30 Full day tour to the VILLA HADRIANA IN TIVOLI

guided by **Hubertus MANDERSCHIED** and **Benedetta ADEMBRI**

1. Canopus and Serapeum

2. Helioaminus Baths

3. Teatro Marittimo

4. Great Baths

12:00 Final discussion of the conference in the *frigidarium* of the Great Bath

13:00 Lunch in the Tenuta la Rosolina at Tivoli

19:00 Gala Dinner in the Hotel

18.11.2018, Sunday

Departure



Frontinus-Gesellschaft e.V.



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