

# 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

18.05.2018

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

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### *10.11.2018, Saturday*

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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**  
**Mayor ?**  
**Ministerio Beni Culturali ?**  
**ACEA ?**

**20:00 OPENING LECTURE**

**Dr. Wolfgang MEYER-HESEMANN - Germany, *Acquedotti di Roma – Alltagsleben im Angesicht der Antike***

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### *11.11.2018, Sunday*

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**08:00 - 18:00 Lectures**

**AQUEDUCTS OF ROME AND ITALY**  
Chairperson: **Gemma JANSEN**

- 08:00 **Michael E. O'NEILL, Edward J. O'NEILL, Katherine W. RINNE, Giovanni ISIDORI, Rabun TAYLOR – Italy**, *Three Contrasting Water-collecting Techniques among the Sources of the Aqua Traiana*
- 08:30 **Maria Garcia CINTI – Italy**, *The Aqua Alsietina: An Unknown Aqueduct with the Worst Water in Rome*
- 09:00 **Katherine RINNE – USA**, *The Power of Thirst: Water and Power in Late-Medieval Rome*
- 09:30 **Dino Alberto RAPISARDA – Italy**, *The Aqueducts of Tauromenion: Supply and Management of Water Resources in Roman and Medieval Times*
- 10:00 Coffee break

## AQUEDUCTS AND WATER SYSTEMS IN ROMAN PROVINCES

Chairperson: **Paul KESSENER**

- 10:30 **Florian TANZ –Germany**, *„Da sie auch an Wasser Überfluß zu haben wünschten ...“ - Die Wasserversorgung des antiken Triers*
- 11:00 **Katja MARASOVIĆ, Jure MARGETA – Croatia**, *Study of the Aqueduct of Diocletian's Palace in Split*
- 11:30 **David Donald BOYER – Australia**, *The Aqueduct-Systems Serving Gerasa of the Decapolis*
- 12:00 **Vedat KELEŞ / Michael Deniz YILMAZ – Turkey**, *The Aqueduct Bridge of Parion and its Settling Tank*
- 12:30 Lunch at the hotel

Chairperson: **Tsvika TSUK**

- 14:00 **Gilbert WIPLINGER – Austria, Paul KESSENER – The Netherlands**, *Der vorrömisch/römische und byzantinische Şirince Aquedukt von Ephesos*
- 14:30 **Dennis MURPHY – USA**, *The Water System of Ancient Syedra*

## ROMAN BATHS

- 15:00 **Marina PIRANOMONTE, Bruno DE BENEDETTI, Alessio LO CONTE – Italy**, *The foricae of the Baths of Caracalla. A New Discovery*
- 15:30 **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 **Julian RICHARD – Belgium**, *Splashing Waters. Supply Devices and Water Effects in Roman Imperial nymphaea*
- 17:30 **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 **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

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**12.11.2018, Monday**

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## 08.00 – 12.00 Lectures

### WATER INSTALLATIONS IN VILLAS AND HOUSES

Chairperson: **Julian RICHARD**

- 08:00 **Davide GANGALE RISOLEO - Italy**, *Water for the Villas – The Distribution of Water in Private Houses*
- 08:30 **Mark LOCICERO – The Netherlands**, *Moisture of a Kindred Quality: Ostia and the Roman Water Footprint*
- 09:00 **Hilke THÜR, Ingrid ADENSTEDT - Austria**, *Brunnen und hydraulische Anlagen in den Hanghäusern von Ephesos*
- 09:30 **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*
- 10:00 Coffee break

### CISTERNAS AND RESERVOIRS

Chairperson: **Ingrid HEHMAYER**

- 10:30 **Maria MONTELEONE – England**, *Defining Castella, Nymphaea, Reservoirs, Cisterns. The Relevance of the Hydraulic Operation and Frontinus Water Balances*
- 11:00 **Patrik KLINGBORG – Sweden**, *Greek Cisterns: Use and Function from a Diachronic and Spatial Perspective*
- 11:30 **Havva İŞKAN – Turkey**, *Eine Zisterne in der lykischen Hauptstadt Antiphellos/Kaş*
- 12:00 **Tsvika TSUK, Iosi BORDOWICZ, Dror Ben YOSEF – Israel**, *The Arch-reservoirs of Sepphoris – is this the castellum of the City*
- 12:30 Lunch at the hotel

## 13:30 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

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

Lecture as introduction to the study trip on Tuesday: **Jens KÖHLER – Italy**, *The Aqueducts of Rome: An Introduction*

Opening of the exhibition from **Dr. Wolfgang MEYER-HESEMANN - Germany**, *Acquedotti di Roma – Alltagsleben im Angesicht der Antike* with Introduction from Gilbert WIPLINGER and Wolfgang MEYER-HESEMANN

Reception

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**13.11.2018, Tuesday**

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

guided by **CRSA- Sotterranei di Roma**

1. Vicovaro:

Lecture: **Donato CIOLI, Luca MESSINA, Maurizio PAGANO, Marco PLACIDI, Riccardo RIBACCHI – Italy**, *In the Footsteps of Ashby: Colle Papese in the Tivoli Area*

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**

Welcome by the president PhD **Franco PAVONCELLO**

Lecture 1: N.N.

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

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**14.11.2018, Wednesday**

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**08:00 – 10:00 Lectures**

**HYDRAULIC ENGINEERING**

Chairperson: **Dennis MURPHY**

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

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

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

09:30 **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**

**Yasmina BENFERHAT – France**, *Das Wassergefühl in trajanischer Zeit am Beispiel Tacitus und Plinius*  
**Eduardo GAUTIER DI CONFIENGO, Leonardo LOMBARDI, Bruno LEONI, Elettra SANTUCCI – Italy**,  
*Castella Aquae - A Tentative Taxonomy*

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

**Peter KOWALEWSKI – Germany**, *De aquaeductu Urbis Romae auf antiken Münzen*

**Noor MULDER-HYMANS – The Netherlands**, *Nabataean/Roman Water System of Khirbet al-Mudayna, a Rural Settlement in Jordan*

**Richard OLSSON – Sweden**, *The Water-supply System in Roman Pompeii*

**Silvia ORLANDI – Italy**, *Public Baths in the 4<sup>th</sup> - 5<sup>th</sup> Century Rome: Between Popular Needs and Technical Language*

**Charles ORTLOFF – USA**, *The Pont du Garde Aqueduct and Castellum: Insight into Roman Hydraulic Engineering*



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

**Paola ZANOVELLO - Italy, *Water Supply in the Pre-desert Areas of African Limes***

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**

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

Lecture as introduction to the study trip on Thursday: **David CHACON, Jens KÖHLER et al. – Italy, *New Research on the Aqua Alexandrina***

Lecture 2: **Gemma JANSEN – The Netherlands, *Roman Toilets of the Capital City***

Reception

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## ***15.11.2018, Thursday***

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### **07:30 Study trip to the AQUEDUCTS IN ROME**

guided by **Jens KÖHLER** and **Gilbert WIPLINGER**, 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 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

## 19:00 Reception at the German Archaeological Institute of Rome

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

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

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

Reception

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## 16.11.2018, Friday

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### 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 TRAIAN'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

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

18:00 **Yinon SHIVTIEL – Israel**, *“You will Draw Water Joyfully from Wells of Salvation” (Isaiah 12:3): Ancient Underground Water Systems in Zefat and its Environs*

18:30 **Wilke SCHRAM – The Netherlands**, *Groundwater as a Water Source for Thirsty Romans*

Reception till 20:00

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## 17.11.2018, Saturday

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

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

1. Canopus and Serapeum
2. Heliocaminus 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

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## 18.11.2018, Sunday

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Departure

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Frontinus-Gesellschaft e.V.



THE AMERICAN  
UNIVERSITY OF ROME



DEUTSCHES  
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ROM



KARL-FRANZENS-UNIVERSITÄT GRAZ  
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