## Wednesday 26

### 9h-10h

**Plenary - Opening the conference**

*Yves Duval*, Directeur du Centre IRD de Montpellier  
*Zheng Xiao Yun*, Président de l’IWHA  
*André Vézinet*, Président du Conseil Général de l’Hérault  
Announcement Dooge award 2013

### 10h30-12h

**P1 Plenary session: Water archives**  
Chair: Thierry Ruf, IRD

- Water archives and landscapes in Hérault - *Vivienne Miguet, directrice des Archives départementales de l’Hérault*  
- L’apport de l’hydraulique et des hydrauliciens arabes à la civilisation de l’eau en Méditerranée” - *Mohammed El Faiz, Université Caddi Ayyad, Marrakech*  
- On becoming a water architect - *Patricia J. Retting, Colorado State University*

**Relevance of water history for current water services management and governance** - *Tapio Katko, Tampere University of Technology, Finland*

### 14h-15h30

**Room 1 amphi Jaubert de Passa**

- **P10 Past And Current Governance of Water: Lessons For The Future**  
  Chair: Christine Récault, Institut de Recherche pour le Développement

  - The Water Private Property as a Governance Model: the Pinochet Dictatorship’s Adjustments and the Democratic administration after 40 Years. *Jorge Vergara-Castro, Institut des Hautes Etudes d’Amérique Latine - Université de Paris 3*  
  - The history about the uses of water, governance and regional reconfigurations in the basin of the rivers Zula and Santiago, Jalisco, Mexico. 19th century to the 21st. *Alicia Torres Rodríguez, Adriano Hernandez Garcia, University of Guadalajara*  
  - Water’s Heritage, a model of Governance in the Spain of the first third of the 20th century. *Gómez Espín, José María y Gil Meseguer, Universidad de Murcia, Spain*

**Room 2 Ariste Duumont**

- **P3-P4 Conflict and Cooperation I: Finding the Balance**  
  Chair: Heather J. Hoag, University of San Francisco

- Cooperation Within Regional Drainage Systems: Meetings of Water Authorities with Landowners in the Dutch Republic. *Milja van Tielhof, Huygens ING/ Utrecht University*  
- Colonial Encounters in the Waterscapes of Southwest Western Australia, 1826-1850. *Ruth Morgan, Monash University, Australia*  
- Water Brings No Harm: Knowledge, Power, and Struggle for the Waters of Kilimanjaro. *Matthew V. Bender, The College of New Jersey, USA*  
- From Power Versus Nature to Environmental Energy? The Political Discourse on Hydropower and Water Course Protection in Norway, 1900-2000. *Zheng Ivar Angell, Ole Andreas Brekke, Uni Rokkan Centre, Norway*

**Room 3 Pierre-Paul Riquet**

- **P15 Domination or “Democracy”? Negotiating Control of Large-Scale Regional: “Colonial” Case Studies: Bengal, Mexico and Russia**  
  Chair: Philip Brown, The Ohio State University, USA

- Early Colonial State and Water Management: A Foundational Subject? *Ujayan Bhattacharya, Vidgasagar University, India (represented)*  
- Water for the People? Digging the Great Canals through Stalin’s Central Asia, 1939-1942. *Maya Peterson, University of California, Santa Cruz, USA*  
- Mocetzuma’s Revenge: Why and How a Colonial Drainage Made the City of Mexico Unsustainable. *Vera Candiani, Princeton University, USA*  
- Drowning the Sacred Sea: the Hydroelectric Colonization of Lake Baikal and its People in the mid-Twentieth Century. *Nicholas Breyfogle, Ohio State University, USA*

**Room 4 Philippe Lamour**

- **P19 Water, Health, and Urban Environments**  
  Chair: Petri Juuti, University of Tampere, Finland

- Water Supply and Control of Waterborne Infectious Diseases in Cities: What Success for the Canal De Marseille in Provence, 1834-1934. *Nicolas Maughan, Aix-Marseille Université, France*  
- The Philosophy and Chronicle of Abolished Urban Rivers and 36 Report in Tokyo. *Shinichiro Nakamura, Shinjiro Kanae, Taikan Oki, University of Tokyo, Japan*  
- Second Nature? ’Re-Discovering’ Urban Streams and the Search for Urban Sustainability. *Michael Toyoa-Seid, Technische Universität Darmstadt, Germany*  
- Shaping a Water City in upper Basin of Yangtze River: Water Management in Kunming City of China from 17th century to 1950s *Zheng Xiao Yun, Yunnan Academy of Social Sciences, China*
| 16h-17h30 | P11 Past and Current Governance of Water: Lessons For The Future 2  
Chair: Christine Récalte, Institut de Recherche pour le Développement | P13 Interventions and Effects I: Impacts of water projects  
Chair : Lino Camprubi, TEUS-UAB | P16 Domination or “Democracy?” Negotiating Control of Large-Scale Regional: Conflicting Levels of Governance: China, Japan And Switzerland  
Chair: Maya Peterson, University of California, Santa Cruz | P29 The Changing Value of Rivers  
Chair: Heather J. Hoag, University of San Francisco |
|---|---|---|---|
| • From wilderness to monks and farmers to beavers and wilderness again. Managing upstream river valleys in the Belgian Ardennes  
Martine Lejeune, Riou vzw, Belgium | • The Vajont Dam Disaster: a Case Study of ‘Risk Society’, ‘High Modernism’, or Something Else?  
Troy Vetese, University of Oxford and the University of St Andrews | Commentator : Nicholas Breyfogle, Ohio State University, USA  
• The Juua Water Correction and the Emergence of a Discourse on Federal River Management in Western Switzerland (1853-1891)  
Olivier Ejderyan, University of Fribourg, Switzerland | • River Navigation in Imperial Brazil: The Doce and Mucuri Companies, 1825-1870  
Judy Bieber, University of New Mexico at Albuquerque, USA |
| • Irrigation and local communities: the contributions of customary rights in the new models of water management – Toufik Ftaïta, Université de Nice | • Irrigation and Settlement History in the United States Great Plains and Mandate Palestine  
Stephen Gasteyer, Michigan State University, USA | • Water and the State in the Yellow River Valley, 1949-2009  
David Pietz, Washington State University, USA | • Engineering National Identity: Two Journeys along the Sao Francisco River in 19th Century Brazil  
Elizabeth Kiddy, Albright College, USA |
| • Irrigation as a "Political" Technology  
Eric Mollard, Institut de Recherche pour le Développement (presented by Christine Récalte, IRD) | • The Water Footprint of the Spanish Agricultural Sector, 1850-2010  
Rosa Duarte, Vicente Pinilla, Ana Serrano, University of Zaragoza | • The Dam that Will not Die: Flood Prevention, Japan’s New Democracy and Local Initiative  
Philip Brown, The Ohio State University, USA | • The Doce and Mucuri Companies, 1825-1870  
Judy Bieber, University of New Mexico at Albuquerque, USA |
| Debate on the whole 2 panels | | | |
### Thursday 27

#### Panels 9h-10h30

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<td>P5</td>
<td>Conflict and Cooperation III: (Re-)Creating History?</td>
<td>Ruth Morgan, Monash University, Australia</td>
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<tr>
<td>P14</td>
<td>Interventions and Effects II: Conceptualizing Humans and Nature</td>
<td>Matthew V. Bender, The College of New Jersey, USA</td>
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<td>P17</td>
<td>A Trans-Atlantic Comparison Of Nationalism and Ideological Currents of 20th Century Water Control and Agricultural Development Programs in Argentina, Mexico and Spain</td>
<td>Cariline Ford, University of California, Los Angeles</td>
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<td>P20</td>
<td>Connecting the Rural and the Urban through Water</td>
<td>Heather J. Hoag, University of San Francisco</td>
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<td>P36</td>
<td>The Unknown Pond: Archaeology of Irrigation and aqueducts</td>
<td>Maurits Ertesen, Delft University of Technology</td>
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- **Local Narratives in the Long Term Water Conflicts: Case of Turku Region in Finland**
  - Vuokko Kurki, Petri Juuti, University of Tampere, Finland
- **Responding to the Historical Legacy at Lake Victoria, Australia**
  - Daniel Connell, Australian National University, Australia
- **A la conquête de l'eau: tensions sociales dans les bidonvilles de skikda**
  - Karima Messaoudi, Faculté de Technologie, Université de Skikda
- **Late Medieval Hydraulic Engineering in Flanders: an Enquiry into the Silting up of the Zwin Near Bruges, 1513-1515**
  - Adriaan de Kraker, VU-University, Amsterdam
- **Nature and Human Invention**: Waterways of Lowell, 1820-1870
  - Jane Weiss, City University of New York, USA
- **The Mestizo Technopolitics of Water Control and Land Reform in Mexico, 1935-1965**
  - Mikael Wolfe, Stanford University
- **Autarky and the early colonization of the Spanish Empire, 1940-1960**
  - Lino Camprubi, TEUS-UAB
- **Water Management Programs and Spanish Colonists of the Southern Arid Pampas: Argentina, 1898-1940**
  - Yovanna Pineda, University of Central Florida
- **Control over Water in Sicily: a Political Issue (15th-19th Centuries)**
  - Rossella Cancilla, Fabio D’Angelo, University of Palermo, Italy
- **Checking Balances: Urban and Rural Approaches to Managing Finances in a Dutch Polder, Bunschoten, 1604-1785**
  - Heleen Kole, Utrecht University, The Netherlands
- **Canal Cities of the Punjab: Towards an Urban History of an Agricultural Territory**
  - Nida Rehman, Pennsylvania State University, USA
- **Long Term Effects of Climate on Human Adaptation in Middle Gila River Valley**
  - Tianduowu Zhu, Maurits Ertesen, Delft University of Technology
- **What is the History of Suranga Irrigation?**
  - Darren Cook, S. Tripathi, R. Jones, University of Hertfordshire, UK
- **Water and Territorial Empire**
  - Louise Rayne, Durham University, UK
- **From special case to normal case? – Aqueducts and mills in the antique Mediterranean**
  - Stefanie Preissler, Institut für Indieriearchaeologie, Wissenschafts-und Technikgeschichte, Freiberg

#### 11h-12h30

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<td>P7</td>
<td>Conflict and Cooperation IV: Law in Comparative Perspective</td>
<td>Mohammed El Faiz, University of Marrakech</td>
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<td>P24</td>
<td>Searching for the Past of River Landscapes on Maps</td>
<td>Thierry Ruf, IRD</td>
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<td>P25</td>
<td>Thinking about the Source: Drinking Water</td>
<td>Irene Klaver, University of North Texas</td>
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<td>P38</td>
<td>Water management in the Canaanite and Hittite Periods</td>
<td>Henning Fahnbusch, FH Lubeck</td>
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- **Water Cooperation in Ancient Rome: an Anthropological Approach to Roman Law**
  - Elisabetta Cangelosi, Istituto Italiano di Scienze Umane, Italy
- **The Tradition of Sharing Water in Yemen During Medieval Islamic Times: Customary versus Islamic Law**
  - Ingrid Hehmeyer, Ryerson University, Canada
- **Water Management in Africa during the French Colonization: the Role of Law and its Relationship with Local Traditions**
  - Monica Cardillo, University of Montpellier, France
- **Two steps back, one step forward: Reconstructing the dynamic Danube riverscape under human influence in Vienna**
  - Severin Hohensinner, University of Natural Resources and Life Sciences Vienna (BOKU), Austria
- **Island landscapes: how the islands of the Seine river were modified during the last two centuries**
  - Laurence Lestel, CNRS-UPMC, Paris, France, P. Alexandre, C. Fisson
- **River network changes, past planform and channel development of the Middle Danube along the reach Devin - Komárno: what different data sources can tell us**
  - Peter Pištú, Comenius Univ., Slovakia
- **The contribution of iconographic, cartographic and written sources, prior to the French Revolution, to the knowledge of the developments of the valleys of the Seine basin**
  - Joséphine Rouillard, PIREN Seine, France
- **Historical Process of the Supply of Drinking Water in the City of Guadalajara: the Case of The Qanats And Aqueducts**
  - Alicia Torres Rodríguez, University of Guadalajara, Mexico
- **Drinking Water Supply in Indonesia: Active Remains from Colonial Times**
  - P.J. (Peter) de Moel, Deift University of Technology
- **A Cultural History of Mineral Water Consumption in Europe: First Thoughts**
  - Michael Zeheter, Bergische Universität Wuppertal

**Reserved for IWHA meetings**

- **Optimization of Agricultural**
- **Is There Light at the End of the Tunnel? The Gezer Water System Project**
  - Tsvika Tsuk, - Israel Nature and Parks Authority, Dan Warner, Jim Parker and Dennis Cole - New Orleans Baptist Theological Seminar
- **Groundwater use in the Hittite capital of Hattuša 1600 BC**
  - Hartmut Wittenberg, Leuphana Universität
- **The ancient hydraulic engineering buildings of Antioch (Turkey)**
  - Mathias Doering, FH Darmstadt
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<tr>
<td>14h-15h30</td>
<td>P8 Conflict and Cooperation V: Governance</td>
<td>Chair: Ellen Arnold, Rachel Carson Center and Ohio Wesleyan University</td>
<td>P27 Valuing Water Heritage: Algerian Perspectives Chair: Alexander Otte, Unesco, PHI</td>
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<td>- The &quot; Merchants Roublie:&quot; An Example of Water Management and Rivers Development in Medieval Montpellier Lucie Galano, University Montpellier 3, France</td>
<td>- The Origin of Water in Desert Environments: the Case of Algerian Oases Lakhdarz Zello, University Blida Dalilia Smadhi, INRA, Algeria</td>
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<td>- Disputed Corporation: the French Connection in Dutch Water Management, 1798-1813(1848) Toon Bosch, Dutch Open University</td>
<td>- The Foggarra in Aegria irrigates Our Palm Groves and Perpetuates the Greenery in the Desert Taha Ansari, National Agency of Hydraulic Resources (NAHR), Algeria</td>
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<td>- Writing a Water History Rila Mukherjee, University of Hyderabad, Institut de Chander Nagar, India</td>
<td>- Water at the center: Reassessing the resources material for South Asia-European maritime history Samuel Berthet, Alliance Francaise de Chittagong</td>
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<td>16h-17h30</td>
<td>P9 Conflict and Cooperation VI: Control</td>
<td>Chair: David Pielz, Washington State University, USA</td>
<td>P35 Groundwater Extraction in Comparative Perspective Chair: Lino Camprubi, TEUS-UAB</td>
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<td>- Final debate on all panels “Conflict and Cooperation”</td>
<td>- First presentation of the film: « AGHBALOU- The Source of Water » of Anna Sowa and Remigiusz Sowa on khetaras in Morocco (english version)</td>
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<td>- Photographic and Broadcasting Archives: What Uses for the History of Floods? Nicolas Holleville, Florie Giaconia, Brice Martin, Universite Mulhouse-Colmar Alsace (UHA), France</td>
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<td>- Methodological Challenges and Opportunities for an Interdisciplinary History of Water in Burgundy, France Seth Murray, Amanda Tickner, Scott Madry, Elizabeth Jones, University of North Carolina at Chapel Hill, USA</td>
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<td>- The financing history of modern urban water and sanitation services in Paris and Milan (19th century and early 20th century) Olivier Crespi Rughizzi, Centre International de Recherche sur l’Environnement et le Développement (CIRED), Paris and Centro di Economia Regionale, dei Trasporti e del Turismo (CERTET), Bocconi University, Milan</td>
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<td>- 19th century WSS schemes in Montreal, New York, Boston and Philadelphia Dany Fougères, UQAM</td>
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<td>- Fighting a Private Monopoly: Water Supply and The Notion of Public Service in Rome (1865-1964) Denis Bocquet, LATTS (ENPC – UPEC)</td>
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<td>- Undertaking Maritime Risks as a Means of Self-Sanctification and Martyrdom in the Early Middle Ages Christian Rohl, Universitaet Bern</td>
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<td>- Extreme Wet Weather and Flooding in the Lifetime of Charlemagne (c.742-814 AD) Conor Kostick, University of Nottingham, Francis Ludlow, Harvard University</td>
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<td>- Shipwrecks, Floods, and Dangerous Travel: River Risks and Carolingian Identity Ellen Arnold, Rachel Carson Center and Ohio Wesleyan University</td>
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<td>18h20-22h30</td>
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<td>- Malaria in Carolingian Europe (750-950) Timothy Newfield, University of Michigan, Ann Arbor</td>
<td>P42 Water Risks in the Carolingian World Chair: Timothy Newfield, University of Michigan, Ann Arbor</td>
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<td>- The dating of the Pergamene Astronomic Law by view of an engineer Henning Falbhusch, FH Lubeck</td>
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<td>- The Water Sources in the First Temple at Jerusalem, Israel Tsvika Tsuk, Israel Nature and Parks Authority</td>
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<td>- The Byzantine water systems to Caesarea – The Taninim Project Yeshu Dray, Restoration of Ancient Technology, Israel</td>
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<td>- Irrigation in the West of the Roman Empire: a Survey of the Evidence in Roman Hispania Anna Willi, University of Zurich, Switzerland</td>
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### Friday 28

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<th>Panels</th>
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<td>P28 The Contemporary Use of the Old</td>
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**Chair:** Philip Brown, The Ohio State University, USA  
- Ancient Water Systems of the Lamas Çayi and the Surrounding Hinterland  
  - Dennis Murphy, ORION Human Spacescraft, USA  
  - Canals and Irrigation Systems in Hautes-Alpes: History of the Canals in the Mountains and of their Territories  
    - Brigitte Lebioda, ADELHA-Ligue de l’enseignement OS  
  - Traditional water management systems: and hydraulic heritage in the Cevennes: the Valescure river in the Obscure Valley of the Gardon river  
    - Marie-Joséphine Grojean, French Water Academy  
  - Irrigation as a Driver for Dissemination of Traditional Water-Lifting Techniques through the Sahara  
    - Sébastien Langlais, ONG Masnat, France, Guillaume Favreau, Christian Leduc, IRD, France |
| P32 Only in Water One Can Learn How to Swim: Knowledge |  
**Chair:** David Pietz, Washington State University, USA  
- Linqing (1791-1846): Official Handbooks and the Diffusion of Knowledge about Water Conservancy in 19th Century China  
  - Delphine Spicq, College de France, Paris  
- Traditional Water Management Systems and New Irrigation and Cultivation Knowledge on the Island of Ponza During the XVIII Century  
  - Arturo Gallia, Università Roma Tre, Italy  
- Selling The Seaway: Advocacy, Opposition, and the Construction of Transnational Expertise  
  - Jeffrey Brideau, University of Maryland at College Park, USA |
| P33 From The Hydrological Cycle to Hydrosystems and the Hydrosocial Cycle: Comparative Histories of the Hydrological Sciences in France and the United States |  
**Chair:** David Blanchon, Université de Paris Ouest Nanterre  
- The hydrologist Maurice Pardé Jean Paul Bravard, Université de Lyon, France  
- Humanizing the Hydrologic Cycle: Evolving views of the relation between water and society, 1931-2010  
  - Jamie Linton, Queen’s University, Canada  
- Dams, Engineers and Hydrology: from hydraulic expertise to a holistic approach of water and land  
  - Stéphanie Duval, IRD  
- From “regulated rivers” to “hydrosystems”: context and consequences of paradigm shift in water management  
  - David Blanchon, Jean-Paul Bravard Université de Lyon, France |
| P30 Logs becoming Crocodiles: Floods in Literature and Art |  
**Chair:** Elizabeth Kiddy, Albright College, USA  
- Wonderful Overflows and Fearful Inundations: Coping with Flooding in Early Modern England  
  - John Morgan, University of Warwick, UK  
- Floods in Dutch Children Books  
  - Erik Mostert, TU Delft, The Netherlands |
| 11h-12h30 |  
P31 Canals and qanats in French History  
**Chair:** Ellen Arnold, Rachel Carson Center and Ohio Wesleyan University  
- Five Centuries of Breakthroughs of Irrigation in Provence  
  - Michel Jean, Aix-en-Provence, SCP  
- From Boats to Maize: Shaping Rivers “Suitability” in Southwestern France  
  - Sara Fernandez, EHESS, France  
- Lost or Forgotten, Antique Hydraulic Techniques: Recent Archaeological Discoveries in Languedoc or Underground Drainage Galleries and Penstocks Tours  
  - Roland Haurillon, INRAP, France, Christophe Tardy, INRAP, France, Jean-Marc Femenias, Société Archééquats, France, Isabel Figueiral, Centre de Bio-Archéologie et d’Ecologie (CBAE), France |
| P21 Floods and the City  
**Chair:** Heather J. Hoag, University of San Francisco  
- The Seine River and Paris  
  - René Coulomb, French Water Academy  
- French-German Flood Risk GeoHistory in the Rhine Graben during the Last Four Centuries  
  - Brice Martin et al.  
- Historical floods of the Pedieos River in the urban area of Nicosia, Cyprus  
  - Katerina Charalambous, EEWRC, The Cyprus Institute |
| P44 The Impact of Tropical Weather—Cyclones and Rain—On Human Affairs in the Eastern Sector of the Indian Ocean World  
**Chair:** Li Tana, Australian National University  
- The Creation of the Red River Li Tana, Australian National University  
- Regulating Rain: Cù Đoi Rituals and Royal Authority in Nineteenth-Century Vietnam  
  - Katie Dyt, Australian National University  
- Maritime Cochinchina in the European archives  
  - Charlotte Minh Ho Pham, Murdoch University and Western Australia Maritime Museum  
- Cyclones and the sea in Australia’s North-West, 1870s-1930s  
  - Joseph Christensen, Murdoch University |
| P43 Springs, Sources and Shrines: Water for Pilgrims, Patients and Pleasure  
**Chair:**  
- The divine Nile – river and rain from the sources to the sea  
  - Terje Østgaard, The Nordic Africa Institute, Sweden  
- Baptism in the Jordan River: Spiritual purification in one of the world’s most polluted and politicized rivers  
  - Francesca de Châtel, Radboud Universiteit, The Netherlands  
- The River as Bridge: The Recurrence of Texas’ Trinity River in the Cultural Imagination  
  - Irene Klover, University of North Texas |
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<td><strong>P2 Irrigation history</strong></td>
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<td>• Water Management Technology in the Greater Southwest of North America 1500 BCE to 2000 CE: An Intersection of Constraints - Robert C. Hunt, Brandeis University, USA</td>
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<td>• A global vision of contemporary history of irrigation schemes in Mediterranean Basin - Thierry Ruf, IRD, France</td>
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<td>• Jack Sparrow in the Sudan. Colonial and Post-colonial irrigation development on the Gezira Plain, Sudan - Maurits W. Ertsen, Delft University of Technology, the Netherlands</td>
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<td>16:00-17:30</td>
<td><strong>P45 International cooperation on qanats.</strong></td>
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<td>Chair Alexander Otte (Unesco, PHI)</td>
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<td>• A. Semsar Yazdi and Majid Labbaf Khaneiki - International Center on Qanats and Historic Hydraulic Structures, Iran</td>
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<td>• Taha Ansari, National Agency of Hydraulic Resources (NAHR), Algeria</td>
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<td>• Mohammed El Faiz, Caddi Ayyad University of Marakech, Morocco</td>
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<td>• And others panelists of the conference working on Qanats</td>
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<tr>
<td>17:30-18:00</td>
<td><strong>Closing Ceremony</strong></td>
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<td>• Jacques Atlan, vice-président du Conseil Général de l'Hérault, délégué à la culture</td>
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<td>• Laurent Vidal, Directeur du département Sociétés de l'IRD</td>
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<td>• Carole Fort, vice-présidente de l'IWHA</td>
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<td>18:00-19:00</td>
<td><strong>Water and Theater</strong></td>
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<td>« Archives give voice ».</td>
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<td>Buffet</td>
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<td>20:30-22:30</td>
<td><strong>Water History and citizens (in French): « l’eau raconte la société, la société raconte l’eau »</strong></td>
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<td>Four examples of research on water in France and in Morocco, dialogue with the public of Montpellier</td>
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<td>History of the river Herault, History of Montady schème, canals in the Alpes, khettaras in Morocco. Films, présentation and debate with historians</td>
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