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We can all learn from history. By studying the successes and failures of ancient civil engineers and hydrologists and the rise and fall of empires, we can better appreciate the noble calling of public works engineering and its relationship to society. The Inca, Romans, ancestral Puebloans, and ancient Greeks all had one thing in common – the desire and need to deal with water resources development for the public good and community welfare. Prehistoric engineers of the New World knew a lot about the use and handling of water and their legacy is remarkable. Roman engineers built water development projects that still make modern engineers green with envy. Greek engineers and hydrologists built successful flood control walls and embankments to provide developable land for the early Olympic Games in the 7th Century BC. These four case studies, based on scientific field research by the Wright Paleohydrological Institute and prepared by four WPI engineers, take you back into time to demonstrate the value of public service and a high standard of care.

FEATURE ARTICLES

4 Ancient Roman Water Development in France
Wayne F. Lorenz (wlorenz@wrightwater.com)
An ancient grain processing factory in southern France with 16 waterwheels and a 39 kilometer aqueduct was a marvel of water power development by the Romans of the 2nd and later centuries. The still surrounding wheat fields inspired the artist Van Gogh in 1888.

9 Mesa Verde Reservoirs: Ten Years of Paleohydrology
T. Andrew Earles (aearles@wrightwater.com)
Four prehistoric reservoirs of the ancestral Puebloans in Mesa Verde, dating from AD 750 to 1180, provided much needed water supplies for ancient communities. In 2004, the ASCE designated them as a National Historic Civil Engineering Landmark.

16 Ancient Olympia Floods and Sedimentation
Kenneth R. Wright (kw@wrightwater.com)
Great classical art treasures were excavated at Olympia, Greece, during the last 125 years. They had been lost to ancient floods and the resulting deposited sediments protected the treasures from looting through the centuries.

22 Prehistoric Inca Highway Drainage Engineering
David W. Foss (dfoss@wrightwater.com)
The Inca connected their large empire via massive highway projects that stretched from the Equator to northern Chile. This public works engineering included drainage and flood control structures that still function today, after 500 years.
Other features in this issue ...

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▲ AWRA Business
27 Request for Proposals for Editor of JAWRA
29 Water Resources Continuing Education Opportunities
31 Candidates for AWRA Officers & Directors, 2005 (termscommencing Jan. 1, 2006)
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32 2005 Meetings (What, Where, When)
33 2005 Membership Application

Don’t Miss Out … Register Today (see pg. 32)
AWRA’s 2005 Summer Specialty Conference
"Institutions for Sustainable Watershed Management: Reconciling Physical and
Management Ecology in the Asia-Pacific"
June 27-29, 2005 • Honolulu, Hawaii

AWRA’s Annual Water Resources Conference
November 6-10, 2005 • Seattle, Washington

Scheduled Topics for Future Issues ...

JULY 2005
Performance-Based Management Measures
Faye Anderson (fayeanderson2@aol.com)

SEPTEMBER 2005
Infrastructure Crisis
Laurel E. Phoenix (phoenixl@uwgb.edu)

NOVEMBER 2005
Water Resources as a Growth Tool
Michelle Henrie (mhenrie@rodey.com)

MARCH 2006
National Hydrology Dataset
Jeffrey D. Simley (Guest Editor) (jdsimley@usgs.gov)

All of the topics listed above are subject to change. For information concerning submitting an article to be included in the above issues, contact the designated Associate Editor or the Editor-In-Chief N. Earl Spangenberg at (espangen@uwsp.edu).

(Cover Photo: Courtesy of Ruth M. Wright ... Ancestral Puebloan Cliff Dwelling at Mesa Verde National Park.)