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# CURRENTS

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## EVENING AT THE FESTIVAL

WWE staff members and their families were treated to an evening at the Colorado Shakespeare Festival in July. We enjoyed *A Servant of Two Masters*, a farcical 17<sup>th</sup> century Italian comedy by Carlo Goldini, and had boxed dinners on the Green with William Shakespeare, himself.

Other shows this season are *A Midsummer Night's Dream*, *Around the World in 80 Days*, *All's Well that Ends Well*, and *Julius Caesar*. The season runs through August 18th. Tickets are available at 303-492-0554.

## WATER FOR YUMA ETHANOL

Two new ethanol facilities are being developed in and around Yuma, Colorado. WWE has a new assignment helping the city incorporate an emergency well into their permanent public water supply. Tasks will include designing a new pipeline that will allow for additional chlorine contact time and obtaining approvals from the Colorado Department of Public Health and Environment.

Joe Nye and Gary Witt thank Yuma City Manager Doug Sanderson and Water Superintendent Claude Strait for the continuing work.

## ARAPAHOE COUNTY POND

Design is proceeding on the regional detention and water quality Pond D-2 located in Arapahoe County. This 40-acre-foot facility is being designed for the newly created Southeast Metro Stormwater Authority (SEMSWA) under the client project management of the Arapahoe County Water and Wastewater Authority (ACWWA).



*Shakespeare visits with Ken Wright and Gary Witt on the Green at CU. WWE has sponsored the Shakespeare Festival for the past ten years.*

Lead engineer Dave Foss thanks ACWWA's Molly Trujillo, P.E., for her regular, ongoing assistance with this challenging project, and looks forward

to the increasing involvement of SEMSWA's Quang Nguyen, P.E.

## WALGREENS

Thanks to attorney Heather Weckbaugh of Montgomery, Little, Soran, Murray & Kuhn, WWE will analyze alleged construction deficiencies at a Superior Walgreens store. WWE is pleased to work with Ms. Weckbaugh on this challenging assignment.

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### SAUDI ARABIAN TOUR

Ali Baluchi of Al Khobar, Saudi Arabia has written to Ken Wright about a tour that he is trying to arrange for March 2009.

The tour is aimed at former Saudi Aramco employees and will include a visit to the Kingdom, inspection of some of the production facilities near the Persian Gulf, and a visit to special sites in Riyadh and provincial towns to the west.



*Ruth Wright in Saudi Arabia in 1956.*

Ken and Ruth Wright look forward to visiting Saudi Arabia and witnessing the immense changes that have occurred there over the last fifty years.

### WINTER PARK RESORT

WWE is working with Doug Laraby of Winter Park Resort on several tasks related to construction activities within the ski area.

Derek Rapp and Andrew Earles completed an update of Winter Park's Storm Water Management Plan for 2007 construction activities. The plan describes erosion and sediment control measures and other Best Management Practices for more than 20 projects underway this summer and fall.

Jeff Nelson and adjunct geologic engineer Marc Pardi have been working on a geologic assessment and grading plan for a new lift terminal at Mary Jane. Jeff expects construction to be completed before the snow flies this fall.

### CRESTED BUTTE RATE STUDY

The East River Regional Sanitation District (ERRSD) near Crested Butte retained WWE to perform a tap fee and rate study. The primary purpose is to develop a financial plan for funding of a new, future wastewater treatment plant. WWE performed the conceptual design and estimated capital costs of the new treatment plant.

Wayne is working closely with Frank Alfone, ERRSD Manager.

### SUMMER INTERNS HONORED

Five summer interns representing three major Colorado universities were honored at our quarterly company breakfast on July 11. While presenting the interns with mementos, Ken Wright said the group was the finest intern crop in WWE history.



*Shannon Buehner,  
Colorado State  
University*



*Michael Claffey,  
Colorado School  
of Mines*



*Michael Huffman,  
University of  
Colorado*



*Arie Opdahl,  
University of  
Colorado*



*Phillip Wolfram,  
Colorado School  
of Mines*

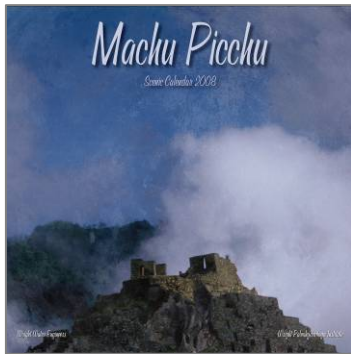
**BASALT TREATMENT PLANT**

Wayne Lorenz is assisting the Basalt Sanitation District and Kelly Gesselle, District Operator, in performing the design of a new support base for the aerobic digester mixer. The new support base will be located on top of the digester and a detailed drawing will be provided to the District.

The Basalt Sanitation District has recently purchased a new mixer and shaft that will be installed by a separate contractor. WWE will coordinate with the contractor during the fabrication and installation process.

**2008 MACHU PICCHU CALENDAR**

Thanks to our team of Sally Kribs, Todd Clary, Patti Pinson, and C & C Printing in Hong Kong, the WWE 2008 Machu Picchu Calendar will soon arrive from China.



The 2008 calendar features scenic photography by Ruth Wright, Kurt Loptien, Will Allender, and Ken Wright. Currents readers will receive a free copy this month. Please call Sally at 303-480-1700 if you'd like additional copies.

Our 2007 calendar won six awards for excellence from the National Calendar Marketing Association — one gold, two silver, and three bronze. Competition included such entities as Utah Highways and the Vatican Observatory Foundation. Ken says the 2008 calendar is our best yet.

**STEAMBOAT HOT SPRINGS**

Adjunct Geologist Bob Kirkham is assisting Bill Lorah and Gary Witt on a geologic evaluation of the Old Town Hot Springs in Steamboat Springs. Our client is a non-profit organization operating this recreational facility. The swimming and soaking pools have been in use for over 100 years, starting with the Ute Indians. The famous Heart Spring, the source of the pool water, yields about 150 gallons per minute.



*Historic photo of the Heart Spring from the Old Town Hot Springs website.*

WWE is helping evaluate the expansion of the use of the geothermal resource to include deicing sidewalks and heating of the pool. We thank Executive Director Patricia Carney for the assignment.

**NEW MEXICO**

The Wastewater Management Master Plan for the Santa Teresa development near the Rio Grande in New Mexico has been finalized. The Plan was presented to Doña Ana County in July by project manager Joe Nye, John Blanchard and Ramzi Skaf both of Matrix Design Group, and Gilbert Mesa of Verde Realty. The County's comments have been incorporated and the Plan will be presented to the Joint Powers Authority in early August.

WWE also helped evaluate the potential expansion of existing facilities to allow more time for a new wastewater treatment plant to be constructed.

## COPPER MOUNTAIN WATER QUALITY

WWE is working for Eric McClure, P.E., of Intrawest to update the Copper Mountain Water Quality Protection Plan (WQPP) for a proposed Planned Unit Development that will expand base area amenities at Copper Mountain. The WQPP outlines strategies to preserve the excellent water quality of West Tenmile Creek both during construction and long term.

WWE's Andrew Earles is coordinating with Deb Decrausaz, P.E., and former employee Peggy Bailey, P.E., of Tetra Tech in Breckenridge, who performed updated drainage analyses of the base area.

## SAUDI ARAMCO

The spring edition of Saudi Aramco's *Al-Ayyam Al-Jamilah* magazine featured Machu Picchu hydrologic research by WWE. In their fall publication, the magazine will report on WWE's 2007 calendar awards, coupled with information on our 2008 calendar.

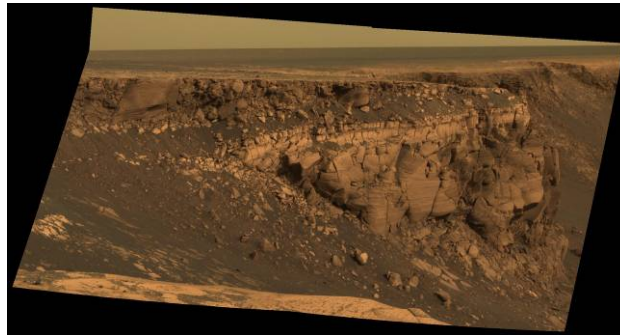
Saudi Aramco, the world's largest oil producer, likes to do followup on former employees. Ken and Ruth worked for Aramco in Saudi Arabia in the 1950s. The pair enjoyed the place and the people, and studied Arabic to better interact with the locals at the marketplace.

## JEFF RUSSEL VISITS

University of Wisconsin Civil Engineering Department Chairman Jeff Russel will visit Denver on September 26. WWE will host an event for UW graduates at the Colorado Historical Society Museum on Broadway.

## MARS & MESA VERDE

These Mars rock strata, photographed by the Opportunity Rover, look remarkably like sandstone formations at Mesa Verde, except there are no cliff dwellings!



*The edge of Victoria Crater (photo by NASA).*

David Jubenville and Ken Wright think the rock formations shown could have been laid down by a water environment.

## BOY SCOUT WATER

The Denver Area Council of the Boy Scouts of America asked WWE to assist in an evaluation of water supply issues at its two camps. At Peaceful Valley Camp in Elbert County, water supply improvements are being planned and designed to enhance reliability of the well-driven system and increase treatment effectiveness.

For Camp Tahosa in Boulder County, WWE is planning and designing the expansion of the water system to meet increased demands.

Gary Witt and Joe Nye will work with Denver Area Council Facilities Director Steve Gerber, Peaceful Valley Camp Ranger Dave Huffine, and Tahosa Camp Ranger Bill McMann.

## LITTLE ROCK, ARKANSAS

Jon Jones, Jane Clary, Andrew Earles, and Shannon Buehner have been busy on assignments for Deltic Timber, one of the largest private property owners in Arkansas, and its attorneys, Chisenhall, Nestrud & Julian.

Our work focuses on reviewing a proposed watershed management plan and implementation strategy for the Lake Maumelle watershed outside of Little Rock, Arkansas. The watershed plan imposes stringent restrictions on land development.

## COMMERCIAL CENTER DRAINAGE

WWE was called in to advise shopping center owner Loup Development Company on drainage issues. Chuck Haines is handling the assignment in Lakewood, which involves drainage onto the site from adjacent properties.

## SILVERTHORNE DEVELOPMENT

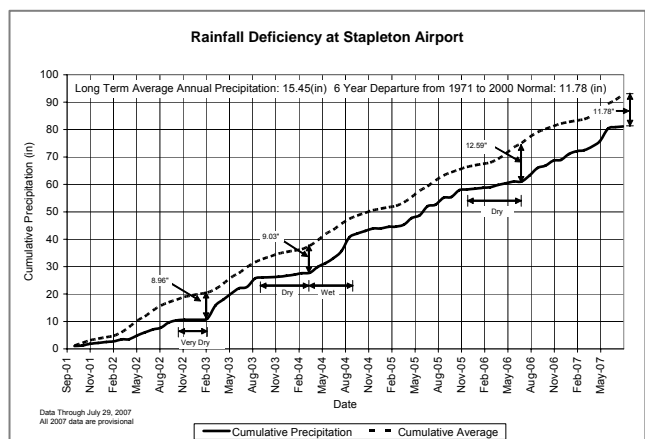
After months of planning, permitting, design and Planning Commission and Town Council meetings, the first phase of the Angler Mountain Ranch project east of the Blue River has been approved and is under construction.

Joe Maglicic, P.E., of Compass Homes Development (CHD) is overseeing construction on the site. Work in progress includes construction of a new bridge over the Blue River, grading of the site, and utility construction and dewatering. Andrew Earles and others have worked for a number of clients over the past decade with interests in developing this property, and are pleased that CHD is moving ahead.

## DROUGHT

WWE continues to track the cumulative precipitation at the Stapleton airport gage. Precipitation at the gage has been running in a deficit mode since September 2001.

This five-year record is worrisome to water engineers and the community in general. Data specialist John O'Brien will keep us informed.



## ROMAN BRIDGE ENGINEERING

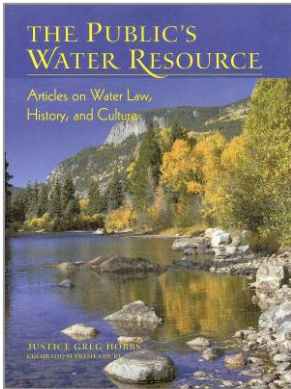
Look for the September issue of *Roads & Bridges* magazine for an article by Wayne Lorenz and Phillip Wolfram dealing with ancient Roman engineering.

Most of the great bridge structures in Rome and elsewhere are located near populated areas and have been obliterated or damaged over time by cannibalization (of building materials) and urban renewal projects. The article identifies two bridge sections in Southern France that have survived for evaluation because of their location in rural areas. The bridge sections illustrate restorative engineering techniques over time.

Please contact us if you would like a copy of the article.

## NEW WATER RESOURCE BOOK

Congratulations to Colorado Supreme Court Justice Greg Hobbs on the publication of his new book, *The Public's Water Resource: Articles on Water Law, History and Culture*.



The book is a fascinating presentation of ideas and information on Colorado's water, ranging from legal opinions to poems to essays on topics like paleohydrology. Ruth Wright had the honor of writing the foreword for the book.

The book can be ordered by calling 303-860-0608.

## A WORLD WONDER

On July 7 (7/7/07) in front of a crowd of some 50,000 spectators and a television audience of millions, the results of the New7Wonders campaign were announced in Lisbon's Benfica Stadium. The campaign has been a multi-year effort to obtain votes from world citizens on the most worthy wonders.

We were pleased to note that one of our favorite places, Machu Picchu, made the final cut. The other New Wonders of the World, as chosen by the people of the world, are the Great Wall of China, Petra, the Statue of Christ Redeemer, Chichén Itzá, the Colosseum, and the Taj Mahal.



*Machu Picchu: One of the New 7 Wonders of the World.*

## FOUR-DAY DEPOSITION

Jon Jones finished a four-day deposition on a flooding case in Indiana. Over his 26 years at WWE, Jon has testified in many cases, but he reports that prior to this, his longest deposition lasted one day.

Many factors led to the length of the deposition. In this case, Jon prepared a long report, multiple parties are involved, the file is extensive (four boxes of documents), multiple computer models have been used, and the project background is long and complicated.

## WESTMINSTER TOWNHOME CLAIMS

Ms. Peggy Kozal of Godin & Baity called in WWE to review recent expert reports prepared for the Watermark Townhome Association in Westminster.

The association's claims of deficient construction were studied by WWE in 2006. However, a settlement has not yet been reached, so follow-up work is now necessary.

## DURANGO HERALD ARTICLE

The front page of the July 30 *Durango Herald* and the *Cortez Journal* featured a nice article about our Mug House investigation and Ancestral Puebloan water use. The author, Joe Hanel, spent a morning interviewing Ken Wright, Patricia Flood, and others on work at Mesa Verde and water resources management in Colorado.

Many parallels exist between past water management practices and current ones. Water remains as integral as ever to our way of life.