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ENR BEST 2013 PROJECTS

Engineering News-Record Recognizing Excellence

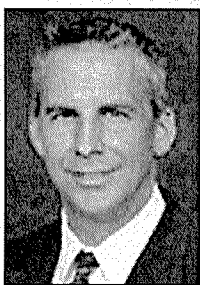
Entries for ENR Mountain States' 2013 Best Projects Competition are now open.

Final entry deadline is July 1.

To enter your 2012-2013 projects, go to enrmountainstates.com

NAMES in the news

Manhard Consulting, a full-service civil engineering firm with offices nationwide, has hired Michael B. Unger to serve as area manager of the firm's Denver operations. Unger will be based in Manhard's Englewood office.



Michael B. Unger

Unger will be responsible for business development along all service lines, resource allocations, budgeting and overall financial performance. In addition, he will work with the national management team to assist in strategic planning and identify acquisition and regional growth opportunities. Before joining Manhard Consulting, Unger served as western regional manager of the Infrastructure Business Unit for Stanley Consultants, where he was responsible for all facets of the operation. His 25-year career includes extensive experience in project management and performance in the areas of infrastructure, land development, transportation, municipal services, construction management and surveying.

Unger received a bachelor's degree in architectural engineering from the University of Colorado at Boulder. He is a member of the Urban Land Institute and is on the Land Development Coalition Executive Committee of the American Council of Engineering Cos.

FIRMS breaking new ground

ECI Site Construction Management Earns Northern Colorado Award

The 95% revenue growth for ECI Site Construction Management—even during the downturn of Colorado's construction industry the past five years—has made the firm Northern Colorado's fifth fastest-growing company.

The Northern Colorado Business Report recently awarded ECI a Mercury 100 Award for its rapid growth. From 2010-2012, revenues of the Loveland-based general contractor nearly doubled, and the company added eight full-time employees. ECI, which celebrates its 30th anniversary this year, now employs 23 staff members.

ECI helps design and build community parks, athletic fields, specialty sports parks and civil projects across the state.

The projects that ECI has completed over the years include:

- A \$3.2-million, 88-day infrastructure overhaul of Main Street in downtown Fort Morgan, Colo.

- The 100-acre Spring Canyon Community Park in Fort Collins, which received an award for outstanding park design from the Colorado Parks and Recreation Association

- Erie Skate Park, the world's first Street League-certified skate park; and

- The \$2.9-million habitat and water-quality improvement of Berkeley Lake along I-70 in Denver, which included enhanced fishing habitats, a renovated dog park, an updated trail system and additional ponds.

"We pride ourselves in delivering projects that build a sense of community in cities across Colorado," said Brian Peterson, ECI president. "When you see families at a park ECI built, kids enjoying a skate park, and residents using downtown areas and open spaces we helped revitalize, it truly makes our work exhilarating."

RUSH - TIME VALUE NEWSPAPER



PART TWO: 2013 MOUNTAIN STATES DESIGN FIRM OF THE YEAR

MWH Applies Global Solutions to Regional Issues

Colorado-based engineering firm leverages its global expertise on local projects

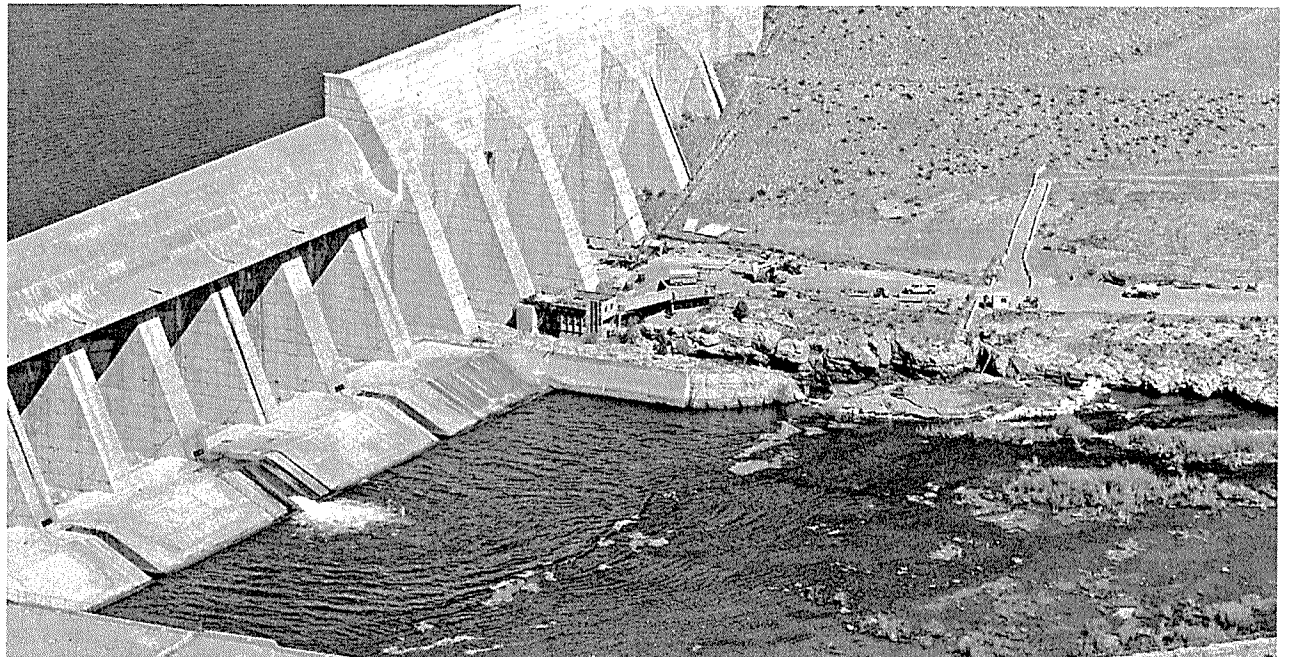


Photo courtesy of MWH Global

Southern Delivery System is the largest water project in Colorado. The \$1-billion-plus project will pump water uphill and north from Pueblo Reservoir through a 62-mile underground pipeline to Colorado Springs.

Editor's Note: Part One of this story appeared in Friday's Daily Journal. Today's installment completes the two-part series.

By Kelly Davidson

MWH is applying this collaborative approach to its ongoing work on the 138-mile Lake Powell pipeline, which crosses federal, state and locally administered lands in Utah and Arizona. MWH teams in Boise, Denver and Salt Lake City head up the Lake Powell project. They work with the hydropower design team based in Chicago and are also supported by designers in Pune, India, who prepared the preliminary drawings. As the project moves to other phases, additional teams—including hydropower engineers in Chicago and Bellevue, Wash.—will be brought into the mix as well.

"Managing the multiple interests involved in the project and the restrictions on the land use is a challenge," says Brian Liming, Lake Powell pipeline co-project manager and technical lead based in MWH's Boise office. "The pipeline begins on lands managed by the Glen Canyon National Recreation Area and then travels mostly through BLM Utah- and Arizona-managed lands, including the Grand Staircase Escalante National Monument."

"We hired MWH for their in-house expertise and global resources, but their team has added value to the project beyond our original expectations," says Eric Millis, deputy director of the Utah Division of Water Resources. One way that MWH brought

value at the front end of the project was utilizing the Federal Energy Regulatory Commission's Integrated Licensing Process, which had never been used on such a large project before.

MWH is also using the process on the Southern Delivery System (SDS)—the largest water project in the Mountain States region—managed by Colorado Springs Utilities. The \$1-billion-plus project, which involves coordination with multiple agencies, will pump water uphill and north from Pueblo Reservoir through a 62-mile underground pipeline to Colorado Springs. Construction began in mid-2011, and the ongoing project is expected to deliver 50 million gallons of water per day starting in 2016.

"MWH recognized how important it is for us to demonstrate value to our ratepayers, so they tied their compensation directly to their performance," says Dan Higgins, SDS deputy program director for construction and delivery at Colorado Springs Utilities. "A quarterly assessment determines how they are paid. This is real value for our ratepayers."

Higgins also credits MWH with leading the SDS safety plan and putting into place systems that have empowered local firms to achieve nearly 600,000 man-hours (almost three years) worked without a lost-time incident. MWH has also helped Colorado Springs Utilities find efficiencies that could deliver the project \$68 million under budget.

Elsewhere in the mountain states, MWH is working on several key water projects, including a \$10.8-million wastewater

pretreatment system at the production facility for yogurt-maker The Dannon Co. in West Jordan, Utah; a \$135-million upgrade and expansion of the wastewater treatment plant for the Central Weber Sewer Improvements District in Utah; and a \$17-million canal replacement in Cache County, Utah.

In addition, a centralized MWH research group based in California works with clients to support specific projects but also focuses on industry-wide issues and engineering science. "Our clients issues today are far more complex today than in years past. It is more imperative than ever that we look to the future and forecast upcoming issues," says Dr. Joseph Jacangelo, MWH research group leader. "The goal is to have solutions before we have problems."

A consistent theme that runs through the firm's diverse portfolio is a commitment to protect and develop the world's natural resources in a responsible and appropriate way. According to Krause, the MWH mission of "Building a Better World" has never been more relevant than in recent years as the firm helps clients temper increasing energy demands with current and future problems arising from climate change.

"The mountain states are a good test tube of what is occurring in climate change. We're seeing huge changes in rainfall and intensity when it comes and how much comes," Krause says. "Water is a finite, precious resource. We are committed to helping our clients protect and preserve water by sharing our knowledge on how to use it wisely, how to treat it, how to deliver it and how to work with it."



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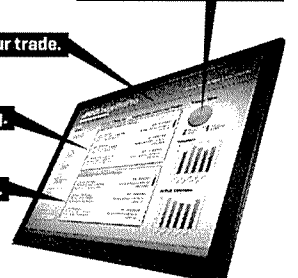
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