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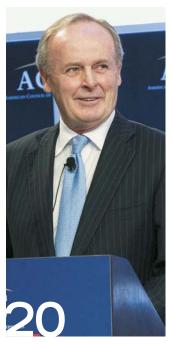
MAY / JUNE 2012 • Vol. 23, No. 3







Honoring the year's most exceptional engineering achievements.





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Engineering Inc. promotes the advocacy and business interests of ACEC by offering news, legislative analysis and business practice information to member firms, clients, opinion leaders and policy makers.

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From ACEC to You

Council Advocacy Efforts Advanced by Member Visits to Capitol Hill

he record-setting 2012 Annual Convention culminated in a massive convergence of ACEC "citizen lobbyists" on Capitol Hill—just at a time when a strong, unified industry voice was most needed.

Convention attendees conducted more than 300 meetings with their congressional delegations to urge passage of long-term transportation, water/ wastewater infrastructure and energy legislation.

Their lobbying efforts couldn't have been better timed, as the House was deciding that very week how to move forward on legislation that would open negotiations with the Senate on a final transportation bill.

Many Convention attendees praised the annual meeting's business agenda. CH2M HILL CEO and Convention keynoter Lee McIntire predicted "unprecedented opportunities" for the engineering industry in society's response to global challenges in climate change, population growth, and water and energy shortages.

Congratulations to all 147 winners at the Engineering Excellence Awards Gala, attended by 600-plus members and clients.

Special congratulations to Tetra Tech-INCA, which led the design team for the magnificent Lake Borgne Surge Barrier in New Orleans, winner of the 2012 Grand Conceptor Award.

For complete coverage of the Annual Convention and the 2012 Engineering Excellence Awards, see page 8.

Ted C. Williams ACEC Chairman gioro caequoux

David A. Raymond ACEC President & CEO



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Wind Power Market Set to Grow After Near-Term Slowdown

ou've heard the saying, "the calm before the storm." For U.S. wind power, the past few months have represented the storm before the calm.

The federal renewable energy production tax credit (PTC)—the prime driver behind the growth of the wind industry since its inception in 1992—is scheduled to expire at the end of 2012. Armed with this knowledge, the industry has been installing turbines at a feverish pace.

"We're busier than all get out," says Jack Hand, president/ CEO of POWER Engineers in Hailey, Idaho. "Everyone is pushing the envelope to get done by Dec. 31."

Political Jockeying Throws Market

The PTC provides an income tax credit of 2.2 cents per kilowatt-hour for the production of electricity from utility-scale wind turbines. The credit helped bring the cost of wind power in line with other energy sources and, over the past four years, helped the wind industry garner 35 percent of all new U.S. power capacity projects.

"Wind has been one of the fastest-growing energy sectors," says Fort Felker, director of the National Wind Technology Center at the National Renewable Energy Laboratory in Golden, Colo. "It's behind only natural gas, and not that far behind."

Despite impressive gains, election-year wrangling has called into question the future of the PTC. Most analysts expect the PTC to get an exten-

sion, but not until after voters go to the polls in November.

The PTC has expired three times in the past, each time with dire consequences for the industry. When it happened at the end of 1999, installations in the wind energy market dropped 93 percent during the following year. The other two times, at the end of 2001 and 2003, installations dropped 73 percent and 77 percent, respectively.

A recent study, "Impact of the Production Tax Credit on the U.S. Wind Market," by independent consulting firm Navigant Consulting, says that if the PTC is not renewed, wind power installations would drop from more than 8 gigawatts (GW) in 2012 to just 2 GW in 2013. Total investment in wind would fall from \$15.6 billion to \$5.5 billion, according to Navigant's projections.

"We don't expect to see much new work in the wind sector until the PTC is extended," says Gary Zahalka, vice president of generation, planning and renewable energy at Ulteig Engineers in Fargo, N.D. "A lot of the manufacturers have already started laying off a bunch of people."

Industry watchers say lingering uncertainty surrounding the PTC extension will likely depress the wind market in 2013. Farther out, though, Navigant says a four-year extension

of the PTC could jump-start the industry. With an extension, annual installations would hover between 8 GW and 10 GW per year from 2014 to 2016. At that pace, total wind investment would be poised to grow to \$16.3 billion by 2016.

Market Factors Slow Down Wind

While the PTC has an outsized

impact on the wind industry, three other factors could contribute to a down market in the next couple of years.

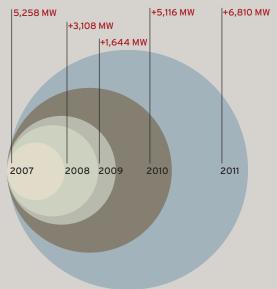
The slow national economy has weakened underlying demand for electricity, says Chris Varrone, president of Riverview Consulting in Irvington, N.Y., which specializes in renewable energy.

"There's not enough demand to get investors motivated about the sector," he says. "Producers aren't looking to grow their markets right now."

Recent advances in naturalgas extraction technologies, specifically hydraulic fracturing, have pushed down natural gas prices, making it difficult for wind projects to compete. Varrone says natural gas prices will trend higher as drillers have to dig deeper and farther afield to tap existing reserves. Within a few years, PTC-aided wind power prices will be on par with natural gas.

In the past five years, the wind industry has added

U.S. Wind Power Capacity, Installed Since 2007



+21,936 MW added from 2007–2011

Source: American Wind Energy Association

30 GW of power to the existing transmission grid with minimal negative impact, says POWER Engineers' Hand. That's encouraging. But, moving forward, the demand for transmission capacity will push the limits of firm resources.

Top 5 States, Largest Percentage of Electricity From Wind 2010





"The amount of investment in transmission is huge right now," says Hand. "Our company is working on 5,000 miles of 500-kV lines. We hadn't done that much in the past 30 years combined."

In the face of these and other factors, the wind industry will continue to make technological advances that could reduce the cost of wind power. Larger rotors and computerized operation, for example, would make it possible to operate in lower-wind sites, bringing wind production closer to demand centers. Most analysts expect technologies to emerge that should make wind power cost-competitive with other forms of power within a few years—even without the PTC.

International Market

Much of the near-term action in wind power will be in international markets.

In 2010, China accounted for nearly half of all wind power installations globally, up from barely any five years earlier. Experts say China will continue to be a huge market for the foreseeable future, but the torrid pace will slow. Of particular interest to U.S. firms, the Chinese government is committed to wind as a domestic industry. Chinese companies are currently responsible for more than 85 percent of wind power installations.

Northern Europe represents another potential hot spot. Wind power has made so much penetration onshore in Europe that almost all of the growth in the coming years will be offshore, but it will be massive. Germany and the United Kingdom already have plans to install 50 GW of offshore wind power in coming years. That's equivalent to eight years of U.S. production at current levels.

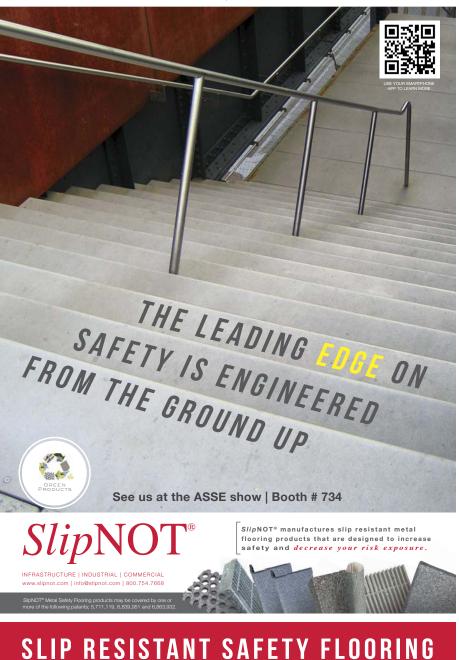
Market Watch

"One park in the North Sea will produce more than 7 GW," says Varrone. "There will be 1,000 of these huge machines, each more than 160 meters tall and with a rotor sweep area twice the size of the infield and outfield of Yankee Stadium."

Longer-term, Bloomberg reports in its "Global Renewable Energy Market Outlook" that developing countries will also make investments in wind power. "By far, the most rapid growth will be seen in India, the Middle East, North Africa, Africa

and Latin America, which are projected to experience growth rates of 10 percent to 18 percent between 2010 and 2020. By 2020, the markets outside of Europe, the United States, Canada and China will account for 50 percent of world demand," the news service reports. Talk about winds of change.

Gerry Donohue is ACEC's senior communications writer. He can be reached at gdonohue@acec.org.







Rep. John Mica (R-Fla.) will lead House negotiators on the transportation bill.

House, Senate Set to Finalize Long-Term Transportation Bill

House-Senate Conference Committee has been appointed to negotiate a final long-term transportation authorization bill, a key Council priority, following approval of alternative bills by both houses.

On March 14, the U.S. Senate passed an ACEC-backed two-year surface transportation reauthorization bill (S. 1813) that maintains current funding levels plus inflation through September 2013. The bill, Moving Ahead for Progress in the 21st Century (MAP-21), was approved on a broad bipartisan vote of 74–22.

MAP-21 consolidates many existing highway programs,

gives states more flexibility in allocating funds, reforms project delivery requirements and begins implementation of performance measures for state transportation departments. In addition to formula funding to states and local agencies, it provides \$1 billion per year in financing support to leverage additional private investment through the Transportation Infrastructure Finance and Innovation Act program. To support highway and transit program funding levels, the bill supplements the Highway Trust Fund with \$13.9 billion by redirecting certain import fees and transferring funds from various other accounts.

In the House, Republican leaders were forced to abandon plans for a comprehensive fiveyear, \$260 billion authorization plan after the bill failed to garner sufficient support. The House adopted an alternative measure to advance the legislative process and begin conference committee negotiations with the Senate. The House bill (H.R. 4348) includes an additional 90-day extension of current transportation funding and programs, as well as ACECbacked provisions to approve the Keystone XL pipeline and improve the environmental review process for projects.

ACEC will seek to retain lan-

guage from the five-year bill that would task state departments of transportation with contracting out for engineering services to the maximum extent practicable.

Passage of a final compromise bill to send to the White House was a key lobbying objective for Council members during the Annual Convention. "This remains the single biggest jobs bill that Congress could complete this year," said Ken Wightman of David Evans & Associates, chairman of ACEC's Transportation Committee.

The current extension of federal highway and transit programs expires June 30.

ACEC Federal Markets Conference Spotlights Opportunities

he Annual Convention featured a Federal Markets Conference that included presentations by 14 federal agencies—including the Departments of Interior, Homeland Security, and Justice—identifying opportunities and upcoming projects that involve engineering and related services.

"Hearing the current and potential detailed acquisition plans—good or bad—of so many present and prospective clients at one time greatly enhances the ability of my firm to strategically plan for the future," said Joan Freitag of

Hanson Professional Services and incoming chair of the Federal Agencies and Procurement Advocacy Committee.

The Federal Markets Conference also included a Teaming

Fair, which brought together large and small firms to discuss teaming opportunities on specific federal projects. With the recent increase in the small-business size standard

for engineering services, the fair provided needed interaction between ACEC Member Firms of all sizes. (See Annual Convention wrap up on page 18.)



Increased Pressure For Water Infrastructure Funding

ater infrastructure funding was a key lobbying priority for ACEC members during the recent Annual Convention. In addition to urging Congress to protect investment levels for the State Revolving Fund (SRF) programs, Council members advocated for new financing mechanisms to help communities fund water needs.

ACEC members were successful in building support for bipartisan legislation—H.R. 1802 and S. 939—that will make it easier for communities to finance water projects through private activity bonds. The Senate has already adopted a modified version of S. 939 as part of the surface transportation reauthorization bill.

Council members also expressed their support for a proposed new program—the Water Infrastructure Financing and Innovation Act (WIFIA)—that would provide below-market loans and loan guarantees to reduce borrowing costs and unlock more private capital for water projects.

The WIFIA concept has already been included in House legislation (H.R. 3145), and House Water Resources and Environment Subcommittee Chairman Bob Gibbs (R-Ohio) is developing a new bill that would include both WIFIA and private activity bonds. Steven Fangmann of D & B Engineers of Woodbury, N.Y., recently testified on behalf of ACEC in favor of WIFIA at a hearing before Gibbs' subcommittee.

Clinton O. Robinson of Black & Veatch and vice-chair of ACEC's Environment and Energy Committee, said, "ACEC Member Firms pressed the point home to Congress that notwithstanding budget realities, communities need stable SRF funding and additional financial tools to maintain the progress our federal-state-local partnership has made over the decades in keeping water safe and clean."



ISSUES ON THE MOVE	WHAT'S NEXT
Surface transportation bill	Conference negotiation could finish by June
Water infrastructure	Private Activity Bond provision to move as part of transportation bill
Energy	Keystone pipeline may be added to final transportation bill



ACEC Takes Its Energy Agenda to Congress

nergy issues were front and center at the recently concluded ACEC Annual Convention, with Member Firms lobbying for legislation to promote an all-of-the-above approach that encourages all forms of domestically produced energy, as well as expansion of long-distance transmission line capacity.

Approval for the Keystone XL oil pipeline from Canada to the United States, which has been delayed by the administration, is a key priority for ACEC. Emphasizing that the pipeline will increase energy security by reducing U.S. dependence on crude oil imported from unfriendly countries, Council members pressed House and Senate members to back legislation to expedite its approval.

ACEC members also lobbied on behalf of extending the Renewable Energy Production Tax Credits (PTC) to support wind, geothermal, hydropower and other renewable energy projects. The wind energy PTC is due to expire on Dec. 31. The Council's "citizen lobbyists" also urged lawmakers to reduce the financing risks and provide more certainty to the renewable energy industry by passing H.R. 3307, which would extend the PTC for all renewable energy sources through 2016.

For More News

For weekly legislative news, visit ACEC's *Last Word* online at www.acec.org.

Engineering Excellence ANARD INNERS

The 2012 Engineering Excellence Awards Gala—known as the "Academy Awards" of the engineering industry—showcased 147 ACEC Member projects from the United States and throughout the world. A panel of 28 judges from across the nation representing a variety of built environment disciplines selected 24 top award ACEC recipients—16 Honor Awards, eight Grand Awards and the Grand Conceptor Award for the most outstanding engineering achievement based on criteria such as

uniqueness and originality, technical complexity, social and economic value, and public awareness.

Emmy Award-winning comedian Ross Shafer once again hosted the sold-out blacktie extravaganza, which was attended by more than 600 members and guests.





ACEC 2012 ENGINEERING EXCELLENCE AWARDS

GRANDAWARDS

Aqua at Lakeshore East, Chicago, III.

Magnusson Klemencic Associates—Seattle, Wash.

Majestically towering 87 stories from a once-neglected industrial brownfield site, Aqua at Lakeshore East represents pioneering structural design for vertical construction. The newest addition to Chicago's downtown includes 78 distinctive undulating balconies

that cantilever up to 12 feetmore than twice the distance of conventional balconies. Innovative structural design provides support exceeding traditional systems, yet contains no elements that would obstruct views of Chicago's historic skyline. The 2.3-millionsquare-foot complex features 264 condominiums, 481 apartments, 325 hotel rooms, two long-span ballrooms, offices, retail, and five levels of parking, and is a breakthrough for future urban high-rise construction.



Marina Bay Sands Integrated Resort, Singapore

Arup—Cambridge, Mass.

Breathtaking engineering design produced a fabulous new tourist destination in the heart of Marina Bay, Singapore's new downtown. The 38-acre resort includes three 55-story, asymmetrically curved luxury hotels, each topped and connected by SkyPark, a 2.5-acre



landscaped rooftop that is the world's largest cantilevered public space, which features a 150-meter outdoor swimming pool. The resort also includes the lotusshaped ArtScience Museum, two 2,000-seat performance theaters and more than 1 million square feet of casino, retail and restaurant space. The project team overcame unfavorable geological conditions and unusual design geometries to produce the spectacular \$6 billion resort that is now a primary tourist attraction for Asia's busiest seaport.



Co-Digestion and Combined Heat & Power Improvements, Johnstown, N.Y. Malcolm Pirnie, The Water Division of Arcadis— Clifton Park, N.Y.

Pioneering engineering design produced the first U.S. wastewater treatment plant that operates entirely on power recovered from the treatment processes, making it a "net zero" energy facility. The project team reduced system electrical demand while significantly increasing digester gas production from the treatment process. Two new 350-kW generators fueled by the digester gas provide heat and electricity for facility operations. Average power production increased from 143,000 kW in 2009 to more than 405,000 kW in 2011. The decreased operational costs help keep customer rates low and established the facility as a leader in sustainable wastewater treatment.



U.S. Highway 82 Mississippi River Bridge, Washington County, Miss. HNTB Corporation—Baton Rouge, La.

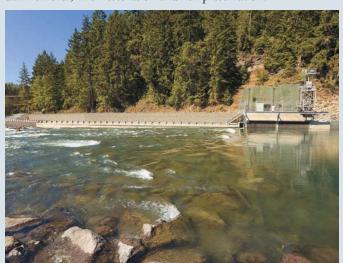
The dazzling new 2,500-foot-long, three-span cable-stayed bridge is the third-longest of its type in the U.S. and a visually stunning new crossing over America's most-storied river. The project team incorporated an innovative dredged-caisson/drilledshaft foundation design to support two distinctive 425-foot-high concrete towers. The new structure is more than three times the width of the 1940s-era bridge it replaced and offers two 12-foot traffic lanes in each direction, two 12-foot exterior emergency lanes, and two eight-foot median emergency lanes. An aggressive construction schedule delivered the new bridge three months ahead of schedule and nearly \$1 million under budget.

GRANDAWARDS

The Elwha River Restoration Project,

City of Port Angeles and Clallam County, Wash. URS Corporation—Denver, Colo.

As part of the second-largest National Park Service river restoration project in U.S. history, two obsolete hydroelectric dams are being removed without adverse sediment impact on downstream water quality and the river's endangered species. To safely dispose of more than 18 million cubic yards of sediment that had become trapped behind the two 1900s-era structures, the project team designed two treatment facilities—an 11-milliongallon-per-day facility to meet stringent water-quality standards, and an innovative surface water diversion system that provided safe passage for migrating fish. The result sets a new precedent for dam removal, river restoration and fish preservation.



Harbor Drive Pedestrian Bridge, San Diego, Calif.

T.Y. Lin International—San Diego, Calif.

A graceful new pedestrian bridge is one of the longest selfanchored suspension bridges in the world, and fulfills a centuryold vision of linking Balboa Park and San Diego Bay. The new 550-foot bridge provides safe passage over a major highway and six railroad lines and includes a 131-foot-tall, 60-degree inclined pylon and a curved deck. The structure contains a unique selfanchored support system that is attached to the bridge itself, as opposed to traditional ground anchoring. Architectural concrete finishes, textured walking surfaces, stainless steel aircraft mesh and indirect deck lighting enhance the scenic experience of the city's downtown and waterfront.





Yorkville Dam Safety Improvements & Bypass Channel, Yorkville, Ill.

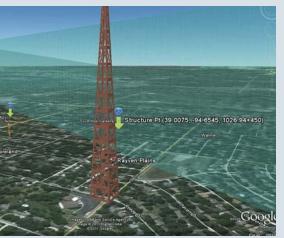
Teng & Associates—Chicago, Ill.

Creative engineering along the Fox River in Yorkville, Ill., improved water recreational attractions by eliminating a life-threatening turbulence condition generated by a dam. Hydraulic conditions downstream produced a submerged roller effect, which had claimed 28 drowning victims over the last 35 years. The project team incorporated a new stepped dam spillway that eliminated the trapping turbulence, making the river safer for recreation. The design also included an innovative fish ladder and a new bypass channel with waterways for recreational and competitive Olympic-style boating.

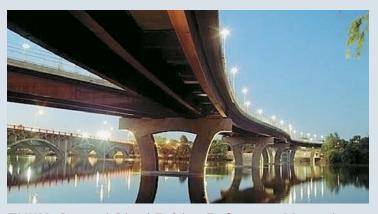
ACEC 2012 ENGINEERING EXCELLENCE AWARDS **HONORAWARDS**

Kansas Airspace Awareness Tool, Topeka, Kan. Burns & McDonnell—Kansas City, Mo.

A new resource for city and regional planners can now accurately and easily depict the complex network of airspace. The Kansas Airspace Awareness Tool (KAAT) transforms imaginary airspace into a precise, easy-to-understand three-dimensional model. The project team provided programming, research and data testing in development of the program,



which accurately depicts location and elevation data to avoid potential airspace conflicts from structures or takeoff/landing patterns. Developed within the Google Earth platform, the KAAT is Internet-accessible and user-friendly for state and local governments, allowing planners to make better airspace decisions, improve safety and protect valuable public assets.



FHWA Curved Steel Bridge Reference Manual with LRFD, Nationwide

Michael Baker Jr.—Horsham, Pa.

A new comprehensive manual for designing curved and skewed steel bridges provides a critically needed industry resource where none previously existed. Curved and skewed steel bridges feature many unique complexities, yet represent some of the most elegant, aesthetically pleasing and cost-effective structures in the world. The project team produced the first-of-its-kind 1,470-page manual that addresses specific issues such as erection sequencing and the effects of skewed supports and lateral bracing. It provides a seamless blending of theoretical instruction and practical design examples benefiting both the novice and the seasoned engineer. The manual, which also incorporates Load and Resistance Factor Design relating to curved and skewed steel bridges, is considered a breakthrough resource for the engineering community worldwide.



Propellants North Facility, Kennedy Space Center, Fla. Jones Edmunds & Associates—Gainesville, Fla.

NASA's first "net zero" facility is a pioneering example of engineering excellence combined with innovative sustainable technology. Designed to produce enough energy onsite to offset operational requirements, the Propellants North Facility achieved U.S. Green Building Council's Platinum status—the highest rating for sustainable buildings. It features 336 photovoltaic panels, which supply 100 percent of the building's energy, saving the agency approximately \$16,000 in monthly energy costs. Water conservation and stormwater management are enhanced by innovative rainwater harvesting and a downstream dry-detention swale.



I-93 Fast 14 Project, Medford, Mass. Tetra Tech and Gill Engineering Associates— Framingham, Mass.

Resourceful engineering helped meet the formidable challenge of replacing 14 structurally deficient bridge superstructures on I-93—a primary route into Bostonover 10 consecutive weekends in the summer of 2011. Predicted to take four years or longer, the largest accelerated bridge effort in Massachusetts history features creative innovations in construction design, including prefabricated bridge elements, special rapid-setting concrete and updated traffic management. By providing motorists with a safer highway without protracted construction delays, the project now serves as a model for highway infrastructure renewal efforts nationwide.



Hickory Ridge Landfill Solar Energy Cover, Atlanta, Ga.

HDR Engineering—Jacksonville, Fla.

Groundbreaking engineering transformed a closed 48-acre landfill into the largest solar energy generating facility in Georgia. Innovative technology was used to apply a high-strength geomembrane across the top of the landfill, anchoring the edges in vertical trenches similar to a bed sheet. Side slopes on the geomembrane provide an ideal, clean and stable surface for 7,000 photovoltaic solar panels, which create more than a megawatt of clean energy—enough to power 224 residences. The cover also eliminates \$1.5 million in annual maintenance costs for a traditional grass-covered landfill cap and represents a new, profitable alternative for the more than 17,000 closed landfills throughout the nation.

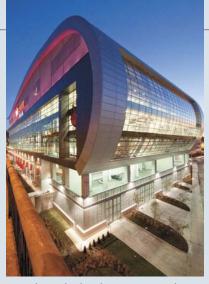
Mobile LiDAR Mapping for Street Improvements, Austin, Texas

Surveying and Mapping—Austin, Texas

State-of-the-art mobile light detection and ranging expedited Austin's plan to implement major downtown streetscape improvements. The project team used laser-based scanning and high-resolution digital spatial data technology that acquired millions of 3D design points per minute. The advanced



system provided extraordinarily detailed street information for a seven-block area, in a fraction of the time required by conventional surveying methods. The detailed data set can be used for 3D visualization, modeling and other future urban planning needs without additional cost.



KFC Yum! Center, Louisville Arena, Louisville, Ky. Walter P Moore— Houston, Texas

A deteriorated, virtually unusable site has been transformed into a new iconic landmark that enhances the downtown Louisville skyline,

stimulates the local economy, and is one of the finest college basketball facilities ever built. The new 22,000-seat multipurpose arena rises from a previously unstable, flood-prone site congested with massive underground structures too deep to be removed. The project team incorporated a labyrinth foundation system to support loads between the existing obstacles and engineered "smart columns" to support a curving 406-foot span that forms the arena's distinctive serpentine roofline. An elegant three-story curved glass exterior provides panoramic views of the nearby Ohio River.



Lake Oswego Interceptor Sewer, Lake Oswego, Ore.

Brown and Caldwell—Portland, Ore.

The world's first-known buoyant gravity sanitary sewer system lies just beneath the surface of this popular recreational lake, replacing an outdated pile-supported system that leaked raw sewage after heavy rains. The project team developed an innovative 29,000-foot-long buoyant gravity sewer system featuring highdensity polyethylene pipe supported by bedrock-anchored tethers as deep as 200 feet. Carefully supported depths combined with gravity maximize free sewage flow to a nearby wastewater treatment plant, while its serpentine alignment provides thermal expansion capability for fluctuating water temperatures. This creative solution protects water quality and has a service life of 100 years.

ACEC 2012 ENGINEERING EXCELLENCE AWARDS **HONORAWARDS**

East Fork Raw Water Supply Project,

Seagoville, Texas

Alan Plummer Associates—Dallas, Texas

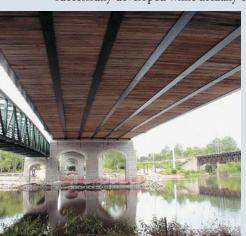
The largest water-reuse project in Texas history successfully averts a critical supply shortage for more than 1.5 million North Texas Water District customers. When available water supplies could no longer meet current or future water district demands, the project team used cutting-edge engineering to divert 91 million gallons of effluent per day from the Trinity River. Filtering the water through 2,000 acres of constructed wetlands, the water is then piped 43.5 miles to another lake for storage, blending and distribution to customers. Completed at a fraction of the cost and time of developing a new reservoir, the project represents a signature solution in water-reuse innovation.



Stearns Road Corridor, South Elgin and Bartlett, Ill. Alfred Benesch & Company—Chicago, Ill.

Also, Bollinger, Lach & Associates / Bowman, Barrett & Associates / Christopher B. Burke Engineering / Civiltech Engineering / Hampton, Lenzini & Renwick / Huff & Huff / McDonough Associates / Michael Baker Jr. / Omega & Associates / T.Y. Lin International Great Lakes / URS Corporation / Wills **Burke Kelsey Associates**

The Stearns Road Corridor proves that new infrastructure can be successfully developed while actually enhancing a fragile surrounding



environment. The project team created a new five-mile road and bridge over the Fox River that also included three miles of new multiuse paths, and handstained underpass structures to enhance three regional trails. The project also involved acquisition and substantial restoration of 216 acres of surrounding green space, including the planting of 150 new deciduous trees, 350 shrubs and 200 perennials, ensuring both transportation and environmental enhancement.



Sacramento International Airport's Big Build, Sacramento, Calif.

AECOM/Corgan Associates—New York, N.Y.

Groundbreaking engineering created the Sacramento International Airport's new showpiece central terminal, new 19-gate concourse and state-of-the-art automated people mover linking the two facilities. The five-level terminal features inventive structural design that utilizes exposed steel beams as an aesthetic enhancement. A co-generation system provides reliable and sustainable power. Designed and constructed in a tightly confined area without impacting ongoing airport operations, the \$1 billion expansion provides much-needed additional capacity to serve more passengers and carriers.



West Closure Complex Pump Station, New Orleans, La.

Bioengineering/ARCADIS—Washington, D.C.

This new solution for severe Gulf Coast storms is the world's largest interior drainage pump station—larger than two football fields-and a primary component of the overall Gulf Intracoastal Waterway protection system. The complex features 11 enormous pumps, each weighing more than 70 tons and capable of discharging 20,000 cubic feet of water per second, the equivalent of filling an Olympicsized swimming pool in less than 21 seconds. Able to withstand Category 5 hurricane-force winds and flying debris, the facility represents an extraordinary engineering achievement in major flood prevention.

HONORAWARDS

SW Moody Avenue, Portland, Ore. Harper Houf Peterson Righellis-Portland, Ore.

Innovative engineering provided critical infrastructure upgrades for a major section of SW Moody Avenue, a key component of Portland's 120-acre South Waterfront Innovation Quadrant redevelopment. The project team overcame contaminated site soils and a complex public and private utility right-of-way by raising the roadway 14 feet and relocating more than 4,000 feet of water lines and 150,000 feet of conduit, along with all supporting access vaults, manholes and other structures. The 3,200-footlong reconstructed highway adds new dual streetcar tracks, pedestrian walkways and a dedicated two-way bicycle track for a new direct connection to downtown.



Submarine Drive-In Magnetic Silencing Facility, Beckoning Point, Pearl Harbor, Hawaii SSFM International/Moffatt & Nichol Joint Venture— Honolulu, Hawaii

A new state-of-the-art demagnetizing facility minimizes a submarine's magnetic signature to make it less detectable by enemies and explosive devices. The complex design features two parallel 706-foot-long finger piers for the submarine to pass through, unique low-magnetic structural components such as stainless steel alloys and structural aluminum, and an innovative power supply system. More efficient than previous labor-intensive methods, the facility serves as a model for future high-security facilities with equally stringent nonmagnetic criteria.





Improvements at the Grand Canyon, Grand Canyon National Park, Ariz. HDR Engineering—Phoenix, Ariz.

A previously congested, hazardous and confusing Grand Canyon overlook now provides more than 5 million annual visitors with a safer, more intuitive and accessible way to enjoy one of the greatest wonders of the world. Numerous obstacles such as vehicle/pedestrian safety hazards, inadequate signage and narrow rim trails had hampered the visitor viewing experience. The project team utilized advanced geotechnical engineering to blend innovative built elements into natural surroundings, including more accessible ADA-compliant trails and walkways, enhanced directional features, a new stone amphitheater and expanded parking. The upgrades will serve as a model for other planned engineering enhancements along the canyon rim.



Texas Medical Center Energy Upgrade, Houston, Texas Burns & McDonnell—Houston, Texas

Resourceful thermal energy engineering will contribute more than \$200 million in energy savings over the next 15 years at the world's largest medical complex. To meet growing heating and cooling demands at the Texas Medical Center—serving 6 million patients a year in 14 hospitals—the project team designed a massive thermal energy system, including the nation's largest chiller facility with 32,000 tons of coolant capacity; an 8.8-million-gallon chilled water thermal energy storage tank, the largest of its type in the world; and a 48-megawatt combined heat and power plant capable of producing 330,000 pounds of steam per hour. The system also taps waste heat from the power generation process to produce high-temperature water for distribution to the Center's 18 buildings.

2012 EEA NATIONAL RECOGNITION AWARD WINNERS

FIRM NAME PROJECT NAME FIRM NAME PROJECT NAME

ACEC/ALABAMA

Barge, Waggoner, Sumner & Cannon

ACEC/ALASKA

HDR Engineering

ACEC/ARIZONA

HDR Engineering

Stanley Consultants

ACEC/CALIFORNIA

AECOM/Corgan Associates

Degenkolb Engineers

HNTB Corporation

International Bridge Technologies RBF Consulting, a Company of Michael Baker Corporation T.Y. Lin International URS Corporation

ACEC/COLORADO

CTL/Thompson

FIGG Frachetti Engineering

URS Corporation

URS Corporation

ACEC/CONNECTICUT

Kleinfelder/S E A Consultants

ACEC/FLORIDA

Atkins

CDM Smith

Tennessee River Modeling

William Jack Hernandez Sport Fish Hatchery

Making the Point: Improvements at the Grand Canyon CAP Superstition Mountain Recharge Project

Sacramento International Airport's
Big Build
Stanford Law School William H.
Neukom Building
Happy Hollow Park and Zoo
Pedestrian Bridge
Coast Meridian Overpass Project
Camp Pendleton Desalination
Feasibility Study
Harbor Drive Pedestrian Bridge
The I-5 Gateway

Mount Carmel Church Renovation 4th Street Bridge Georgetown Water Treatment System Improvements Delta Wastewater Effluent River Diffuser The Elwha River Restoration Project

Armed Forces Reserve Center, Middletown, Conn.

Courtney Campbell Causeway Interchange 2-mgd NF/RO Design-Build



CH2M HILL/Neel-Schaffer

Hardesty & Hanover Jones Edmunds & Associates Kimley-Horn and Associates

Walter P Moore

ACEC/GEORGIA

CH2M HILL

HDR Engineering

ACEC/HAWAII

Masa Fujioka & Associates

SSFM International/ Moffatt & Nichol

ACEC/IDAHO

Horrocks Engineers

H. W. Lochner Progressive Engineering Group

ACEC/ILLINOIS

Alfred Benesch & Company Bollinger, Lach & Associates Bowman, Barrett & Associates Christopher B. Burke Engineering Civiltech Engineering Hampton, Lenzini & Renwick Huff & Huff McDonough Associates Michael Baker Jr. Omega & Associates T.Y. Lin International Great Lakes URS Corporation Wills Burke Kelsey Associates

Alfred Benesch & Company Collins Engineers

HDR Engineering Teng & Associates

TranSystems Corporation

ACEC/INDIANA

Crawford, Murphy & Tilly DLZ Indiana DLZ Indiana

HNTB Corporation Strand Associates

ACEC/IOWA

Stanley Consultants

Stanley Consultants

ACEC/KANSAS

Burns & McDonnell Cook, Flatt & Strobel, Engineers GBA Architects and Engineers H.W. Lochner OCU Landfill Gas-to-Energy System Ben Sawyer Bridge Propellants North Facility Downtown Promenade and

Street Reconstruction Salvador Dali Museum

Energy Cover

Georgia Regional Water Planning Project Hickory Ridge Landfill Solar

USS Arizona Memorial Visitor Center Replacement Submarine Drive-In Magnetic Silencing Facility

I-84, New York Canal Modeling and Mitigation I-84, Ten Mile Road Interchange Lapwai Valley Regional Wastewater Project

Stearns Road Corridor

Wabash River Bridge
One Weekend; One BridgeEJ&E Bridge Roll-In Design
Resource Recovery at Wild Rose
Yorkville Dam Safety Improvements
& Bypass Channel
Historic Wood Paver Restoration

Georgia Street Reconstruction I-69 Tier 2 Section 4 EIS and ROD Water Resources Program Management Accelerate 465 New Wastewater Treatment Facility

University of Iowa Combined Heat and Power Plant Waverly Dam Reconstruction

Kansas Airspace Awareness Tool Echo Ridge Subdivision K-7 and Johnson Drive Interchange Bull Creek Bridge Rehabilitation

2012 EEA NATIONAL RECOGNITION AWARD WINNERS

PROJECT NAME

ACEC/KENTUCKY

FIRM NAME

Biagi, Chance, Cummins, London, Titzer **GRW** Qk4

Stantec

ACEC/LOUISIANA

Bioengineering/ARCADIS

Tetra Tech-INCA

ACEC/MARYLAND

AECOM

AECOM

ACEC/MASSACHUSETTS

Arup

Tetra Tech and Gill Engineering Associates

University of Kentucky Veterinary Diagnostic Laboratory Northern Ditch Interceptor City of Shepherdsville IFAS Implementation River Road Bridge Widening Over Harrods Creek

West Closure Complex Pump Station Lake Borgne Surge Barrier Project

Metro Fire and Security Management Systems Upgrade The Mary Catherine Bunting Center at Mercy

Marina Bay Sands Integrated Resort

93 Fast 14 Project

ACEC/METROPOLITAN WASHINGTON

Robert Silman Associates Robert Silman Associates

Syska Hennessy Group

ACEC/MICHIGAN

HNTB Corporation **NTH Consultants**

Ruby+Associates

ACEC/MINNESOTA

Bolton & Menk

Bolton & Menk

HDR Engineering/ Mead & Hunt **HDR Engineering**

HDR Engineering HGA Architects and Engineers

TKDA

ACEC/MISSISSIPPI

HNTB Corporation

ACEC/MISSOURI **Burns & McDonnell**

Burns & McDonnell HNTB Corporation

Maryland 9/11 Memorial University of Virginia Clinical Cancer Center AIA Headquarters Sustainable Modernization

Michigan State Rail Plan Detroit/Wayne County Port Authority Public Dock and Terminal

Conversion of Ottawa Street Power Station

Downtown Watertown Redevelopment Improvements Saint Peter Water System Improvements Holmes Street Bridge No. 4175 Rehab Project Innovations in Tire-Pavement

Noise Research St. Joseph Wind Farm Town Green Bandshell and Pavilions

District Energy Solar Thermal System

U.S. Highway 82 Mississippi River Bridge

Biofuels of the Future: The ZeaChem Solution Iatan Generation Station Unit 2 Replacement of BNSF Bridge 204.66 Over Mississippi River **Parsons Transportation Group**

ACEC/MONTANA DOWL HKM

FIRM NAME

HDR Engineering HDR Engineering, Inc./ Morrison Maierle

ACEC/NEW JERSEY

CDM Smith **CH2M HILL**

Gannett Fleming

Hatch Mott MacDonald

Jacobs Engineering Group

Parsons Brinckerhoff

Parsons Brinckerhoff

PS&S

ACEC/NEW MEXICO

CDM Smith

Molzen Corbin

ACEC/NEW YORK

AECOM

Arup C. T. Male Associates Engineering, Surveying, Architecture & Landscape Architecture **DeSimone Consulting Engineers**

Gannett Fleming Engineers and Architects/GeoDecisions, a division of Gannett Fleming HAKS

kcICON Project-Christopher S. Bond Bridge

PROJECT NAME

Facility

Big Hole Diversion Dam Replacement Pablo Pedestrian Bridge Bozeman Water Reclamation

Record-Setting HDD Installation NHSA Hoboken H1 Wet Weather Pump Station

I-78 and Garden State Parkway Interchange 142 Jersey City Water Plant

Improvements

Rt. 36 Highlands Bridge Over Shrewsbury River

Rt. 46/Main Street Interchange Reconstruction

Widening of the GSP Bridge Over Mullica River

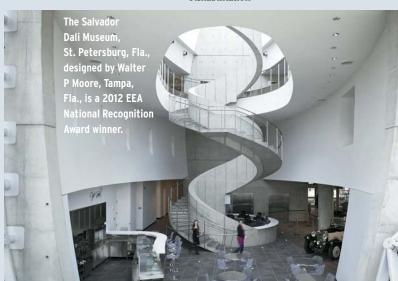
The Heights at Montclair State University

City of Hobbs WWTP Improvement Project University of New Mexico Arena 'The Pit"

Yankee Stadium Redevelopment City Work Calais Land Port of Entry GLOBALFOUNDRIES-FAB 8

Searchable Property Environmental E-Database

New Croton Aqueduct Rehabilitation



2012 EEA NATIONAL RECOGNITION AWARD WINNERS

FIRM NAME

Hardesty & Hanover Hazen and Sawyer

HDR Engineering

HNTB Corporation

Holzmacher, McLendon & Murrell

Joseph R. Loring & Associates

KLD Engineering

Malcolm Pirnie, The Water **Division of Arcadis** Mueser Rutledge Consulting Engineers Syska Hennessy Group

Thornton Tomasetti

ACEC/NORTH CAROLINA

Schnabel Engineering Stewart Engineering

ACEC/OHIO

Malcolm Pirnie in association with Stantec and H.R. Gray

ACEC/OREGON

Brown and Caldwell CDM Smith

Harper Houf Peterson Righellis

McMillen **Parsons Brinckerhoff**

Parsons Brinckerhoff

Willis Avenue Bridge Paerdegat Basin Combined Sewer Overflow Facility Reconstruction of the Roosevelt Island Bridge

PROJECT NAME

Rehabilitation of Atlantic Avenue Viaduct

Treatment Online Inadvance of Impending Plume

Hudson Valley Community College-TÉC SMART Queensboro Bridge/Tramway

MPT Modeling & Analysis Co-Digestion and Combined Heat & Power Improvements

Cofferdam for the Cannelton Hydroelectric Plant U.N. Headquarters, North Lawn

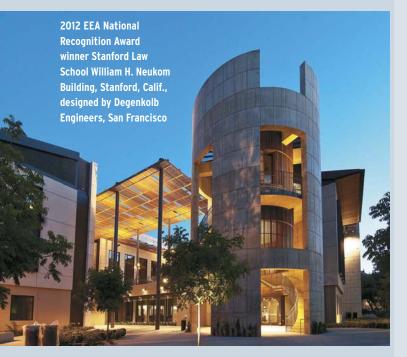
Conference Building Penn State University Millennium Science Complex

Deep Creek Watershed Dam 5D Buckner Companies Home Office

Columbus Professional Program Management

Lake Oswego Interceptor Sewer PDX Deicing Collection & Treatment System SW Moody Avenue: SW River Parkway to SW Gibbs Choloma Hydroelectric Project East Side Combined Sewer Overflow Tunnel

LTD Gateway EmX BRT Extension



ACEC/PENNSYLVANIA

Borton-Lawson

FIRM NAME

The EADS Group

Gannett Fleming Michael Baker, Jr.

SAI Consulting Engineers

Urban Engineers

ACEC/SOUTH CAROLINA

Collins Engineers **GWA**

Keck & Wood

Vaughn & Melton Consulting **Engineers** Wilbur Smith Associates

ACEC/SOUTH DAKOTA

Short Elliott Hendrickson

ACEC/TEXAS

Alan Plummer Associates

Burns & McDonnell

Espey Consultants

Ford Engineering

Pape-Dawson Engineers Surveying and Mapping

URS Corporation

Walter P Moore

Walter P Moore

ACEC/UTAH

CDM Smith

ACEC/VIRGINIA

Hardesty & Hanover **HDR** Engineering

ACEC/WASHINGTON

Anchor QEA

CH2M HILL Magnusson Klemencic Associates

Wood Harbinger

ACEC/WISCONSIN **HNTB Corporation**

Mead & Hunt **Strand Associates** Lehigh River/Pohopoco Creek

PROJECT NAME

Bridge Project Flight 93 National Memorial:

Phase 1

South Street Bridge Reconstruction FHWA LRFD Curved Steel Bridge Reference Manual

S.R. 0028-036 Etna Interchange Reconstruction

U.S. Airways New GSE Facility

Seismic Evaluations for CCSD AgFirst Emergency Switchboard Replacement

Winthrop University-Campus Green

Whitmire Bridge Replacement Over Duncan Creek Preparing for the Future-Critical

Missions

Southland Lane Detention Project

East Fork Raw Water Supply Project

TECO Master Plan Implementation Project Phase One

Restoration Hamilton Pool/ Receiving Watershed

Live Oak Road Water Plant Expansion

U.S. 281 Superstreet

Mobile LiDAR Mapping for Street Improvements Green Water Treatment Plant

Decommissioning

KFC Yum! Center, Louisville Arena

University of Texas/MD Anderson Alkek Patient Care Tower Expansion

West Valley Light Rail TRAX Project

Chincoteague Bridge Replacement Atlantic Treatment Plant Expansion Phase I

Percival Landing Major Rehabilitation Project Brightwater Treatment Plant Aqua at Lakeshore East SR 532 Corridor Improvements 767 Production Line Relocation

Milwaukee County Grounds Floodwater Facility Rest Areas 11 & 12 Monona Drive (CTH BB)

2012 FEA JUDGES

2012 EEA COMMITTEE

ACEC thanks the 2012 Engineering Excellence Awards (EEA) judges and EEA Committee members for their time and dedication to this year's competition.

Linda Bridwell

Chief Judge Kentucky American Water Lexington, Ky.

George G. Alexandridis

Delaware River Joint Toll Bridge Commission New Hope, Pa.

Arthur Barsema

Commonwealth Edison Company Rockford, Ill.

Brigadier General (Ret.)

Stephen Burritt National Guard Henniker, N.H.

Laura Cabiness City of Charleston

Charleston, S.C.

Lawrence Chiarelli Polytechnic Institute of NYU Brooklyn, N.Y.

Karen Durham-Aguilera **HQ USACE** Washington, D.C.

Dr. Sam Easterling Virginia Tech Blacksburg, Va.

Dr. Dennis Fallon The Citadel Civil and Environmental Department Charleston, S.C.

Garret Graves

Governor's Office of Coastal Activities Baton Rouge, La.

Dr. Moujalli C. Hourani Manhattan College

Riverdale, N.Y.

Maryann Johansson

The University of California-Santa Barbara Santa Barbara, Calif.

Jerry Johnson

Washington Suburban Sanitary Commission Laurel, Md.

Jill A. Jordan Assistant City Manager Dallas, Texas

Paul Kovacs

Illinois Tollway Downers Grove, Ill.

Melinda McGrath

Mississippi Department of Transportation Jackson, Miss.

Keavin L. Nelson

Veolia Water North America Hellertown, Pa.

Tom Powers

City of Chicago Chicago, Ill.

Dr. T. Peter Ruane

American Road & Transportation **Builders Association** Washington, D.C.

Department of Transportation Springfield, Ill.

Julie Skallman

Minnesota Department of Transportation St. Paul, Minn.

Stephen K. Swinson

Thermal Energy Corporation Houston, Texas

Maj. Gen. Merdith W.B. "Bo" Temple

USACE

Washington, D.C.

Paul Wageman Winstead PC

Dallas, Texas

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Kristine Young

Miller the Driller Runnells, Iowa

Michael Zetlin

Zetlin & De Chiara, LLP New York, N.Y.

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The Port Authority of New York & New Jersey New York, N.Y.

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Gannett Fleming Camp Hill, Pa.

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Washington, D.C.

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Stuart D. Monical

MKK Consulting Engineers Greenwood Village, Colo.

Daisy P. Nappier ACEC

Washington, D.C.

Peter F. Piattoni Fay, Spofford & Thorndike Burlington, Mass.

Donald G. Sherman HDR

Phoenix, Ariz.

ACEC wishes to thank the following companies for their sponsorship of the EEA Gala:

GOLD

AECOM

HDR Engineering **HNTB** Corporation

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Alan Plummer Associates American Society of Civil Engineers

Arcadis

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CDM Smith CH2M HILL

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Michael Baker Jr., Inc. Syska Hennessy Group Tetra Tech-INCA

The Louis Berger Group T.Y. Lin International

Urban Engineers URS Corporation

Gannett Fleming TMG Custom Media

Victor O. Schinnerer/CNA



eeking to take advantage of new marketplace opportunities, more than 1,300 ACEC members—an all-time record—attended the recent ACEC Annual Convention in Washington, D.C.

The high turnout gave the Council a robust advocacy presence on Capitol Hill as the Convention's "citizen lobbyists" held more than 300 meetings with senators, congressmen and staffers to urge passage of long-term transportation, water/wastewater infrastructure and energy legislation.

ACE

The Convention also featured thought-provoking political insights from two former governors, perspectives on market success from three top U.S. engineering firm leaders, more than a dozen federal agency contracting presentations and cutting-edge business management sessions.

The annual meeting was highlighted by the black-tie Engineering Excellence Awards Gala, which also was attended by an all-time record of more than 600 guests.

"The strongest part of this year's program was the speeches by Governors Haley Barbour and Ed Rendell. They were dynamic, entertaining and addressed issues that matter to our industry," said Jim Thomas of VTN Consulting in Las Vegas. "We always try to attend this event. The program is always really solid and pertinent to our business."

William Hall of United Consulting in Indianapolis was impressed with the Convention's targeted business focus. "I sat in on the Transportation Committee Meeting where the transportation bill was discussed," Hall said. "I enjoyed learning specifics about highway funding and FAR overhead issues, especially since my firm and state are dealing with these issues."





Teaming Fair Exceeds Expectations for **Subcontracting Opportunities**

ore than 70 firms participated in the Annual Convention's Teaming Fair, which helps large firms seek out small firms for subcontracting opportunities on federal contracts. Many participants came away impressed with the program.

Vaughn Anderson, of DJ&A, P.C., in Missoula, Mont., called the Teaming Fair "an excellent opportunity to connect with larger firms," adding, "we made some good contacts."

"It was fast and wild, but great for our firm," said Anastasia Vassos, vice president of WSP Flack + Kurtz in Boston. Three interviewers from the firm took part in the program.

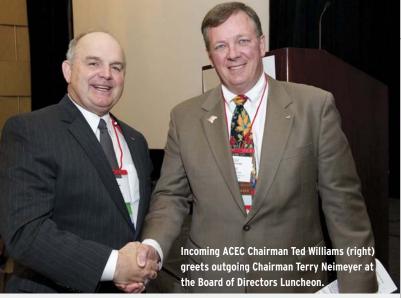
> "The Teaming Fair really exceeded my expectations," said David Sprenkle, senior vice president of Merrick & Company in Aurora, Colo. "We're looking to follow up with many of the firms we interviewed, and at least three firms may have the skills, experience and smallbusiness status we were looking for to fill current teaming needs."

CH2M HILL CEO Says Engineers Best Suited to Address Global Challenges

H2M HILL Chairman and CEO Lee McIntire said engineers are uniquely positioned to lead the response to many global challenges, including climate change, population growth, and water and energy shortages.

"Who's going to solve these problems but this group right here," said McIntire during his keynote address at the ACEC Convention. "Our industry is one of the best in the world for dealing with change. It's our time to lead."

McIntire pointed to the energy sector, where fracking and other innovations have led to a dramatic increase in production. "I believe that the United States could be a net exporter of oil, gas and coal by 2030," he said, adding that engineers bring more to leadership than professional competence. "Certainly it's about innovation, but it's also about who is going to be trusted," he said. "I maintain that it's going to be us."



Williams Succeeds Neimeyer; New ExCom Takes Office

ed Williams, executive vice president of Landmark Engineering, Inc., in New Castle, Del., succeeded Terry Neimeyer as ACEC Chairman for 2012-2013 at the spring meeting of the ACEC Board of Directors.

New members of the 2012-2013 Executive Committee: Chairman-elect Gregs Thomopulos, chairman/CEO of Stanley Consultants, Inc.; Ralph Christie, Jr., chairman/ president/CEO, Merrick & Company; Michael Matthews, president/CEO, H&A Architects and Engineers; William Stout, III, chairman/CEO, Gannett Fleming; Peter Strub, eastern regional vice president, TranSystems Corp. ACEC/ Alabama Executive Director Renee Casillas is the new NAECE representative.

CEO Panel Addresses Funding Challenges, **Growth Opportunities**

eaders of three top U.S. engineering firms shared insights into how they are positioning their firms for marketplace

George Little, chairman and CEO of HDR (#11 on the 2012 ENR 500), said that because of "Congress' lack of focus on infrastructure, we're going to see more local funding and more publicprivate partnerships." He forecast that the energy sector will remain strong, but added that any growth in water and wastewater will be due almost solely to municipalities having to conform to ever-increasing EPA regulations.

Steve Blake, CEO of ARCADIS (#12), projected continued acceleration of industry mergers and acquisitions. "They're going to get bigger because of globalization, projects getting bigger, clients demanding more services and ownership transition," Blake said, adding that as ARCADIS has expanded globally, it has developed a "home market" strategy. "Brazilians run Brazil for us," he said. "Chinese run China."

Paul Gardiner, president of Cardno USA (#30), described his firm's rapid expansion from an Australia-based firm in 1999 to a global powerhouse with 6,500 employees in 250 offices in 85 countries. "We entered the United States through an acquisition in 2007," explained Gardiner. "Through several more acquisitions, we've grown to the point where our U.S. operations account for 65 percent of our total revenues."

Rendell Calls Infrastructure 'Best Job Creator'

rmer Pennsylvania Gov. Ed Rendell—a longtime champion for infrastructure investment—told Annual Convention attendees that increased spending on infrastructure is the best way "to rejuvenate the economy and rebuild our country."

"The American people want infrastructure investment, the best job creator there is," said Rendell. "Unless we do it, we will no longer be a great nation."

If the United States were

to invest \$200 billion annually in infrastructure for the next 10 years, Rendell said, "We would be No. 1 globally in infrastructure and be energy independent."

In his new book, A Nation of Wusses: How America's Leaders Lost the Guts to Make Us Great, Rendell writes that "our politicians have lost the will to make hard decisions because they are too concerned about staying in office."







Barbour Predicts Tight 2012 Presidential Election

ormer Mississippi Gov. Haley Barbour predicted that the upcoming presidential election will be a hard-fought, neck-and-neck contest.

"If the election is about the president's record, then the GOP stands a great chance," Barbour said. "If the election is about anything else, then the president's chance for a second term increases."







ACEC/PAC Fundraising Picks Up Pace in Critical Election Year

ACEC/PAC boosted its already strong 2012 fundraising performance by raising \$148,000 at the Annual Convention with the popular Spring Raffle, once again a key component. Winners of the 2012 Spring Raffle:

\$10,000 — Joseph Debs, RS&H, Inc., Jacksonville, Fla.

\$5,000 — Sheri Smith, T. Baker Smith, Houma, La.

\$2,000 — Mitchel Simpler, Jaros, Baum & Bolles, New York City

\$1,000 — Gregg Ten Eyck, Leonard Rice Engineers, Inc., Denver

\$1,000 — Charles Gozdziewski, Hardesty & Hanover, New York City

\$1,000 — Ted Richards, Strand Associates,

Madison, Wis. (which he returned to ACEC/PAC)

\$1,000 — R. Roush, Leonard Rice Engineers, Inc., Denver

\$1,000 — Janice Burnett, ACEC/Arizona



of Engineers (USACE); Col. Robert S<mark>ink</mark>ler, USACE; Karen Durham-Aguilera, USACE; Angela DeSoto-

Duncan, Tetra Tech-INCA; Col. Ed Fleming, USACE and Shiv Batra, Tetra Tech-INCA.



Taking The state of the state

ACEC's Senior Executives Institute provides navigable path to effective firm management

Takeaways

- ACEC's Senior Executives Institute includes lessons in advanced management, leadership and public policy.
- Executives leave the program with lasting personal and professional relationships and a lifetime network of best practice resources.
- Among the topics executives say they've examined are how to navigate the political process and decision-making in tough economic times.

unning a successful engineering firm is no easy task. It requires vision, sensitivity to clients' needs, the ability to coach and nurture internal talent and a constant focus on quality. The stakes are higher during difficult economic times, which is why a select group of senior executives increasingly turns to one of their most unique resources for helpfellow graduates of ACEC's Senior Executives Institute.

"Any of us can call someone else in the group to ask about their business and get an unabashed answer to the question," says Paul Hirst, president at Caldwell Richards Sorensen in Utah, and a member of SEI's first graduating class. "We don't have to go it alone."

More than 400 industry executives have passed through the Council's flagship education program since 1995, completing intensive, forward-thinking training in advanced management, leadership and public policy. Class XVI concludes in Spring 2012, with Class XVIII beginning in September 2012.

Though executives typically enroll in the program for professional development, graduates report that they often come away from the experience with a deeper understanding of their own strengths and weaknesses as leaders and with lasting professional relationships that benefit them throughout their careers.

"SEI was a high-water mark for me in my development personally and as an engineer," Hirst says.

Innovative Curriculum

As part of SEI's 1995 inaugural class, Hirst was one of 14 engineering executives who took part in the original program, which met over seven weeklong sessions over more than two years.

The decision to enroll amounted to a gamble for the high-level executives involved. SEI was brand-new and, at the time, had no track record of success, says Kyle Davy, a leadership and management consultant and co-designer of the SEI curriculum.

The Institute's founders—including former ACEC Executive Vice President Howard Messner and Louis Marines, former CEO of the American Institute of Architects—envisioned a professional develop-

5 Steps to More Effective Leadership

he Senior Executives Institute's expansive curriculum addresses the breadth of experience required of engineering executives at successful firms. Here's what to expect.

Session 1: Executives spend five days in Washington, D.C., broadening their understanding of economic trends, publicpolicy debates and global concerns.

Session 2: During four days in New Mexico, SEI participants work to develop better self-awareness, learn stress management techniques and hone their interpersonal and communication skills.

Session 3: Participants meet in Boulder, Colo., for exercises in improved leadership, team building, adapting to change, and strategic planning and designing of successful organizations.

Session 4: Classmates travel to San Francisco to study new models for professional practices, learn alternative project delivery methods, explore lean theory and sustainability, and update their knowledge of human resources and technology issues.

Session 5: Four days at Amelia Island, Fla., wrap up the SEI experience, as attendees explore creativity and innovation, partnering and alliances, coaching and mentoring and learn how to integrate lessons learned through SEI into real-world business practices.

ment program that stressed leadership and management with insights into politics, personal relationships and a commitment to building lasting companies that adapt to changing markets.

The program's founders understood that there is no shortage of professional development programs from which busy executives can choose, whether from other industry groups, universities or private organizations. To set SEI apart, organizers have and continue to focus on business issues unique to engineering. (See sidebar.)

"The ability to concentrate on the leadership challenges inside our industry and to share those perspectives and practices with other executives is extremely important," Davy says.

SEI's typical annual enrollment ranges from 24 to 28 participants. The time commitment has been streamlined from seven to five nearly weeklong sessions over 18 months. Recent installments have de-emphasized management training—a topic often highlighted in other executive training pro-

grams—in favor of leadership skills specific to engineering.

"We continue to draw from the best and brightest ideas about leadership, personal mastery and strategy," Davy says. "And we give much more attention to coaching that supports growth and development inside organizations."

What hasn't changed, he says, is the rigor of the program. Graduates devote 21 days to formal class time, not including time spent outside class reading assigned books and articles.

This intensive training, which also includes interactive case-study analyses and learning how to communicate more effectively, stood out to Hirst from the time he attended his first session.

"Before, when I talked to someone about their performance, for example, I assumed they would clearly understand what I was saying," he explains. "I never bothered to ask, 'What did I just say?' When you ask that question, it's amazing the answers you sometimes get."

Other SEI graduates report similar experiences. Lamar Dunn, president of Lamar Dunn & Associates and a member of SEI's second graduating class, says all 17 of his classmates formed relationships that have lasted for years. "Even the wives of class members bonded," he says.

Dunn so valued his experience at SEI that he has since put two additional staff members through the program, for a total of about 10 percent of the firm's staff. "We are all better individuals as a result," he says.

No Missing Pieces

A decade later, SEI participants continue to praise their time with the Institute. Bill Stout, chairman of Gannett Fleming, enrolled in his first session in 2006, shortly after being selected as the company's next CEO. "While I relished the challenge of becoming CEO, it also seemed rather daunting," he recalls. "I saw SEI as an opportunity to round out some missing pieces in my experiences and education."



"SEI was a high-water mark for me in my development personally and as an engineer." PAUL HIRST CALDWELL RICHARDS SORENSEN

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Not Just for Engineers

ot everyone who attends ACEC's Senior Executives Institute (SEI) is a practicing engineer.

The current class includes professionals such as Paula Hochstetler, president of the Airport Consultants Council (ACC) and one of four women currently enrolled in the SEI program.

"In addition to growing professionally, I was interested in learning what was on the minds of this new generation of engineering leaders. Anticipating their concerns, priorities and needs will enable us to better adapt our services," Hochstetler says.

With four of five SEI sessions now

complete, Hochstetler says the program is helping her become a better leader. "It forces us to take time out to think about what we're doing. Are our actions effective and authentic? How about our basic attitudes? The instructors work us over. and in all honesty, the combination of sessions and readings has been intense," she says. "But, it's been well worth every ounce of effort."

Hochstetler recalls working through the principles outlined in The Fifth Discipline, a book about group problem-solving that encourages executives to diagram an organizational challenge in hopes of

uncovering a solution. The document writing process within ACC used to take an inordinate amount of time and resources. By diagramming the problem as part of her work at SEI, Hochstetler was able to identify a flaw in the editing stageauthors weren't routinely receiving specific feedback on their work-which was creating delays.

"If we had not diagrammed the process, we would not have visually seen where the error was being made," she explains. "Now the authors have a chance to grow and perhaps will no longer even need to have their work reviewed."

Stout found the personal development sessions especially beneficial. "If you are going to ask people to be led by you, you need to understand yourself pretty well," he says. "If you have a better understanding of how others perceive you, you are in a better position to work with them."

Stout also came away with new insights into Washington politics and how engineering firms can better influence legislative outcomes, particularly the benefit of communicating firm needs and business interests.

"That was something I knew before the program, but it really crystallized for me how to shape your approach to elected officials," he says.

Stout was the first executive from Gannett Fleming to attend SEI, but he wasn't the last—five other firm executives have since completed the program. "It has given us all a common set of tools and a language that we can use when we are speaking with one another about leadership issues,"

he says.

The ability to communicate took on new significance during the recent economic downturn, particularly as staff cutbacks and other tough decisions became necessary.

"Those of us who had to lead the organization through this experience were all people who have been through the SEI program," Stout recalls. "Because of that, we were in a better position both to be responsive to the outside environment and to help people understand why we had to do what we were doing."

The Big Picture

To climb the executive ranks at any firm requires focus and a commitment to personal success, but such dedica-



"Even the wives of class members bonded. We are all better individuals as a result." LAMAR DUNN LAMAR DUNN &

ASSOCIATES

tion can also cloud the collective business mission.

SEI aims to help participants balance personal growth and collective business ambitions, says Ron Fuerst, senior principal at Langan Engineering and Environmental Services. Fuerst joined SEI in 2008. "Before that, I had a title, I knew what I did here, and I thought I understood what my importance was to the firm," he says. "But all of that was totally from my own viewpoint."

Eighteen months and five sessions later, "SEI really opened my mind to what it takes to establish a successful, sustainable and growing firm," Fuerst says. "Now I'm less competitive individually and much more concerned about all the things that are necessary for the firm's success."



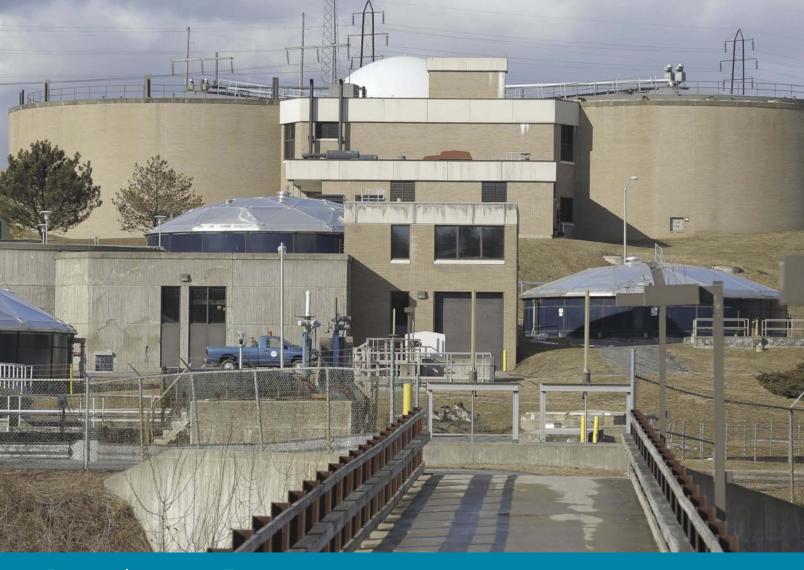
"I saw SEI as an opportunity to round out some missing pieces in my experiences and education.' BILL STOUT **GANNETT FLEMING**

Fuerst employs a philosophy he learned from SEI called "Check It Out," a way of thinking that encourages executives to slow down their decision-making process and to put the brakes on decisions or actions that could potentially send the firm in the wrong direction.

"If there is something that needs to be said, I now say, 'We've got to check something out here," explains Fuerst. "It puts everyone's defenses down and helps you get to the meat of the matter without being defensive or competitive."

Completing the program is an accomplishment. But how do executives stay energized and apply the lessons learned through professional development to day-to-day operations at their firm? To Fuerst, the answer is obvious. "The fact that we send another person to SEI every year helps me," he says. "Our SEI graduates bring back an energy that keeps me recharged."

Alan Joch is a business writer based in Francestown, N.H.



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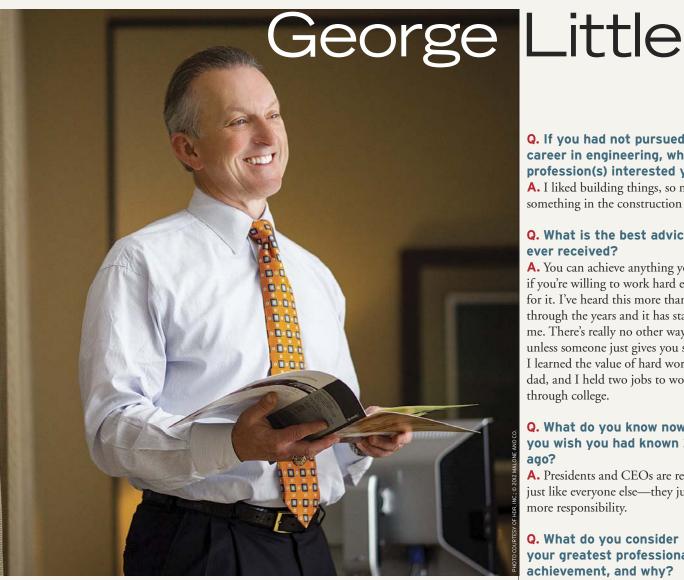
We are proud to be the engineering consultant partnering with Gloversville-Johnstown on this groundbreaking project. Winner of the ACEC Grand Award in the Waste & Storm Water Category, this project represents the culmination of over 12 years of work focused on energy conservation, wastewater process optimization, co-digestion and energy generation.

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Decision Makers



n December 2011, George Little succeeded Richard Bell as chairman, CEO and president of HDR. Little is responsible for the growth and strategic direction of the company, which is 11th on the ENR Top 500 and employs more than 7,800 professionals in more than 185 offices. Prior to taking the reins at HDR, Little was president of HDR Engineering, Inc., the firm's largest operating company, since 1997.

Q. What is the primary reason you chose to become an engineer?

A. I was intrigued with electricity. The more I learned, asked questions and became involved and even became involved in an industry Explorer post in high school, I realized that electrical engineering was what I wanted to do.

Q. If you were president of the United States for one day and could make one executive decision, what would it be?

A. Create a balanced budget, because if we don't solve our debt issues, the country will be worse off every single day. You can't keep spending money you don't have; no one in private life is able to do that.

Q. If you had not pursued a career in engineering, what other profession(s) interested you?

A. I liked building things, so maybe something in the construction industry.

Q. What is the best advice you ever received?

A. You can achieve anything you want if you're willing to work hard enough for it. I've heard this more than once through the years and it has stayed with me. There's really no other way to do it unless someone just gives you something. I learned the value of hard work from my dad, and I held two jobs to work my way through college.

Q. What do you know now that you wish you had known 20 years

A. Presidents and CEOs are real people just like everyone else—they just have more responsibility.

Q. What do you consider your greatest professional achievement, and why?

A. Consistent, profitable performance, because it creates a strong company and also creates resources for people to do other things. We are an employeeowned company, and our employees' retirement security is very important to me. At the front end of my career, passing my PE exam was a big deal, because it allowed me to get into consulting. Being promoted wasn't as big a deal to me, although it was the outcome.

Q. Do you have any hobbiessomething outside of work, maybe-that you enjoy doing?

A. Nothing unique, but I enjoy golf when I can get out. As much as we sit in meetings and on planes, it's nice to be outside chasing a little white ball!



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Business Insights

Opportunities in Growing Sustainability Market

Project request for proposals increasingly require using sustainable products and materials, conserving energy and water, recycling wastes, and following new procedures for sustainable project delivery.

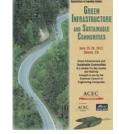
ACEC surveys show that Member Firms are creating or expanding sustainable engineering practices within their organizations by bringing together people with the requisite knowledge and experience to compete for project work.

The market for sustainable engineering services is driven by three core client needs:

- Public Expectation: Demonstrating that the client organization is operating in a way that protects the environment and the communities it serves.
- Investment Opportunity: Viewing client operating problems and issues from a "sustainability lens" and taking a life cycle view.
- Long-Term Necessity: Recognizing that the consequences of operating under a non-sustainable model for development are now within an organization's planning horizon.

For these clients, design variables, such as carbon footprint, embodied energy, extended project life, and use of recycled materials, must be taken into account. Emerging opportunities in sustainable project development and delivery will be explored in the upcoming Green Infrastructure and Sustainable Communities course, scheduled for June 25-28, 2012, in Denver.

Participants will hear about emerging opportunities in sustainable development, become familiar with national and international metrics for sustainability, understand how to identify future projects through sustainability audits and learn how to apply lifecycle analysis to proposed projects and programs. Expert green infrastructure fac-



ulty will explore ways to expand business practices in sustainable engineering, especially with regard to sustainable transportation, buildings and water/wastewater projects. For more information, visit www.acec.org/education.

Get a Jump on **Emerging Industry Trends**

The business environment in which our industry operates has been irreversibly altered. Firms now face multiple generations in the workforce, each with its own experiences and motivations.

As governments have fewer dollars to spend on public projects, public-private partnerships are increasingly prevalent. This changes the way the industry approaches projects and does business. Increased interest in sustainability opens the door to new—previously unknown—markets and the attendant risks that come with such uncertainty.

As firms seek a competitive advantage, awareness of current trends and the development and implementation of proactive practices to capitalize on these changes can be the difference between a firm becoming a market leader and struggling to catch up.

A new book by ACEC Press, A/E/C Mega Trends: The Path to Competitive Advantage, highlights seven emerging trends that are likely



to reshape the architectural, engineering and construction industry in the United States in the next decade. These trends involve changes that will affect a broad scope of business activities, including company governance, business development, operational methods, overhead control, and human resources and innovation.

CASE Provides 10 Foundations for Risk Management

Professional liability is a critical concern for structural engineers. To help address risk issues related to structures, the Council of American Structural Engineers (CASE) presents its Ten Foundations for Risk Management.

The 10 foundations are (1) Firm Culture; (2) Prevention & Proactivity; (3) Planning; (4) Communication; (5) Education; (6) Scope; (7) Compensation; (8) Contracts; (9) Contract Documents; and (10) Construction Phase. Each includes worksheets, sample documents, case studies and exercises for assembling a risk management toolkit.

In addition, CASE has released two more products:

CASE Tool 2—4: Project Risk Management Plan lays out the methodology for managing project risks and includes common project risks and templates for how to record and track those risks.

CASE Tool 4-5: Project Communication Matrix and Coordination Log provides an easy, efficient way to establish and maintain project-specific communication standards and document key project-specific deadlines and program/coordination decisions. This Excel-based tool helps firms maintain consistent project communication standards and document and communicate project coordination decisions.

All of the CASE-developed products are available at www.booksforengineers.com.

The ACEC Institute for Business Management provides comprehensive and accessible business management education for engineering company principals and their staffs.

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Members in the News

On The Move

Barry K. Dewberry was elected chairman of the board at Dewberry. Sidney O. Dewberry, outgoing chairman who cofounded the firm in 1956, will transition into the role of chairman emeritus and founder.

Eric Keen was appointed president of HDR Engineering, Inc., and vice chairman of **HDR**, Inc., succeeding George Little, who was named chairman, CEO and president of HDR, Inc. (See page *30.*) **Doug Wignall** was named president of HDR Architecture, Inc. He succeeds Merle S. Bachman, who is retiring at the end of the year.

Neil McArthur will succeed Harrie Noy as chairman and CEO of ARCADIS. Noy was



Sidney and Barry Dewberry



Neil McArthur

scheduled to step down May 16. Greenhorne & O'Mara (G&O) named Joseph T. Skinner president and CEO. Lawrence **J. Longo** was appointed COO.

Brian P. Reed was promoted to CEO of RS&H, effective July 31, when current chairman and CEO, Leerie T. Jenkins Jr., will transition out of the CEO position to serve as chairman of the board. David K. Robertson. the firm's COO, was also named president. Richard Hurst was hired as vice president of transportation/infrastructure.

Guy Templeton was named president and COO of the Asia/ Australia-Pacific/Southern Africa operating company of Parsons Brinckerhoff (PB). Templeton succeeds Chuck Kohler, who has been appointed group director of operational delivery for Balfour Beatty, PB's parent company.

Randy Ferguson joined Barge, Waggoner, Sumner, and Cannon, Inc., as COO.



Eric Keen



Joseph T. Skinner



Doug Wignall



Guy Templeton

Welcome New Member Firms

ACEC/Alabama

A.G. Gaston Engineering, LLC. Birmingham Goodwyn, Mills & Cawood, Inc., Montgomery Weatherford & Associates, Inc., Montgomery

ACEC/California

Chad Mosley, P.E., Cupertino Ramos Consulting Services, Inc. (RAMOS/CS), San Marino **RJR Engineering** Group, Inc., Oxnard

ACEC/Colorado

FirstPass Engineering, Castle Rock Warren Mesloh Services, LLC. Fort Collins

ACEC/Florida

Craven, Thompson & Associates, Inc., Fort Lauderdale Eisman & Russo, Inc., Jacksonville **EPTISA Engineering,** Inc., Pembroke Pines MDM Services, Inc., Lakeland **Monta Consulting** & Design of WMR, Altamonte Springs Preble-Rish, Inc., Port St. Joe

Boynton Beach **ACEC/Illinois**

Group, Inc.,

Scalar Consulting

d'Escoto, Inc., Chicago Robinson Engineering, Ltd., South Holland

ACEC/Indiana

Civil Engineering Consultants, Reelsville **Durkin & Villalta** Partners Engineering, Inc., Indianapolis

ACEC/Louisiana

Atchley & Atchley, Inc., Shreveport **GAEA Consultants,** LLC, New Orleans

ACEC/Maryland

Structura, Inc., Baltimore

ACEC/New Hampshire

Golde Planning & Design, Inc., Concord Hayner/Swanson, Inc., Nashua S. W. Cole Engineering,

Inc., Somersworth **ACEC/New York**

Critical Solutions & Innovations. Consulting Engineers, PLLC, New York, N.Y.

ACEC/Ohio

BHE Environmental. Inc., Cincinnati Columbus Engineering Consultants, Inc., Columbus H.R. Gray & Associates, Inc., Hilliard River Consulting, LLC, Columbus

ACEC/Oklahoma

Boatman Engineering, LLC, Okemah MPW Engineering, LLC, Tulsa

ACEC/South Carolina Benjamin B.

Aiken DDC Engineers, Inc., Myrtle Beach

Christensen, PS.

ACEC/Tennessee

Structural Design Group, Inc., Nashville

ACEC/Texas

ARKK Engineers, Houston **Bury + Partners Engineering Solutions**, Houston Busch, Hutchison & Associates, Inc., d/b/a Hutchinson & Associates, Baytown **DFW Consulting** Group, Inc., Irving DGR Consultants, LLC, Dallas Ford Engineering, Inc., San Antonio MS2 Inc. Consulting

Engineers. San Antonio Nelson Jones, Flower

Mound PaveTex Engineering and Testing, Inc.,

Dripping Springs Purdy-McGuire, Inc., **Dallas** RVE, Inc., Corpus Christi Sherfey Engineering

SA, LLC, San Antonio Shield Engineering Group, PLLC, Fort Worth **Texas Utility** Engineering, Inc.,

ACEC/Washington

San Antonio

Aspect Consulting, LLC, Seattle Wallis Engineering, Vancouver

ACEC/Wisconsin

Structural Dimension, Brookfield

Calendar of Events

JUNE

- ESOPs for Engineering Companies (online seminar)
- 6 The Changing Face of Indemnity: Meaner and Uglier (online seminar)
- Calculating the Right 13 Earnings to Determine Your Firm's Value (online seminar)
- 22-23 ACEC/Virginia 2012 Annual Conference, Wintergreen, Va.

Additional information on all ACEC activities is available at www.acec.org.





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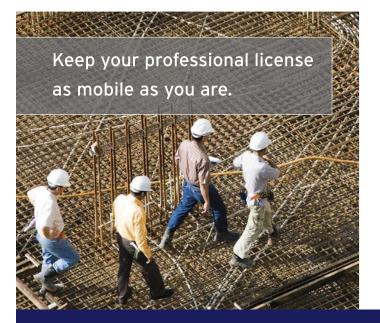
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Mergers and Acquisitions

Pace of M&A Mirrors Economy's Fragile Recovery

n speaking with ACEC Member Firm owners and managers across the nation, there's a near-unanimous consensus: The first quarter of 2012 was markedly better businesswise than the same period in 2011.

This year's unusually mild winter, compared with last year's deep freeze, resulted in an earnings windfall from field operations in the first three months of the year with much-improved bottom lines, and—perhaps more important-stronger backlogs.

Firms increasingly are seeing private capital re-enter the buildings and land development sectors. The first quarter also saw continued success for firms with a footprint in the Marcellus, Bakken or Utica shale regions.

With so many Member

Firms reporting stronger earnings, one might assume that mergers and acquisitions (M&A) activity is on the rise.

When the economy is growing, firms are usually stronger and generally more optimistic-there are relatively more buyers in the market with relatively higher deal valuations.

The numbers, however, tell a different story. The pace of design firm activity is down 11 percent over the same period last year. This mirrors the larger economy. As of Jan. 20, 221 deals had been announced in North America across all industries, compared with 396 through the same period in 2011, a decline of some 44 percent, according to data from market research firm mergermarket.

So, why the slowdown, especially when the economy suggests that the pace of M&A should be increasing? There are two primary reasons:

- · Buyers are still cautious and are conducting due diligence—particularly when vetting opportunities and backlog as presented by potential sellers.
- Sellers are feeling more optimistic about their shortterm outlooks. Many are seeing more opportunities and hearing good news from their clients and owners. The resulting improvement in self-confidence makes sellers less likely to accept conservative offers.

Changing expectations and outlooks on the part of potential buyers and sellers are directly attributed to a lack of clarity about the nature of the current economic recovery.

BY MICK MORRISSEY

Both camps recognize the recovery is occurring, but one is more skeptical than the other about its pace and risks.

Watch for the pace of M&A to pick up again in the second and third quarters as confidence in the economic recovery builds. Also, expect a spike in activity in the fourth quarter, as firms move quickly to consummate deals prior to the end of the calendar year in anticipation of tax increases in 2013.

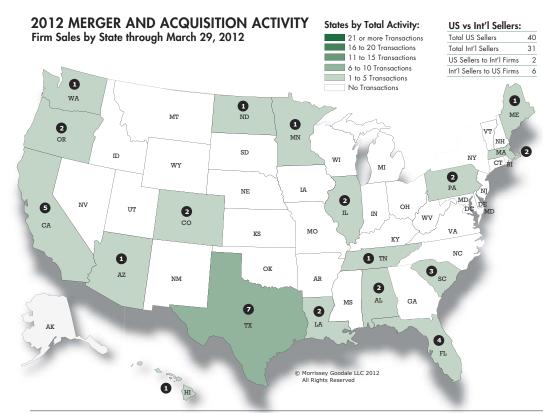
ACEC Member Spotlight

In March, ACEC member McKim & Creed (Raleigh, N.C.) acquired a 31-person **AECOM** survey operation, formerly known as **SURVCON** (Houston). SURVCON is a full-service professional land surveying and aerial mapping firm. It will operate under the name SURVCON, a Division of McKim & Creed.

In February, ACEC member Spalding DeDecker Associates (SDA; Rochester Hills, Mich.) acquired fellow ACEC member firm Coyle Engineering (San Antonio). Coyle Engineering will operate under the name Coyle-SDA.

To view the most up-to-date and "live" versions of the M&A heat maps accompanying this article, and to see who the buyers and sellers are in each state, go to www.morrisseygoodale. com.

Mick Morrissey is managing principal of Morrissey Goodale LLC—a strategy, M&A and human capital solutions firm serving the A/E/C industry. He can be reached at mmorrissey@ morrisseygoodale.com.





ACEC Retirement Trust

Why YOU should belong to the ACEC Retirement Trust (Trust)

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To learn more about the benefits of the ACEC Retirement Trust, log onto our website at www.acecrt.com or contact our educational consultant to the trust, Nancy Barrette at Wells Fargo Advisors, LLC at 1-800-521-9463 or via e-mail at nancy.barrette@wellsfargoadvisors.com.

Core securities, when offered, are offered through GWFS Equities, Inc. and/or other broker dealers. GWFS Equities, Inc. is a wholly owned subsidiary of Great-West Life & Annuity Insurance Company.

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1 Source: PLANSPONSOR magazine, July 2011 (based on year-end 2010 figures). Information and #4 ranking by participant accounts refer to the retirement business of Great-West Life & Annuity Insurance Company and First Great-West Life & Annuity Insurance Company, and to FASCore and reflect all recordkeeping customers: those of institutional partners, TPA clients and Great-West Retirement Services.

2 As of December 31, 2011.

3 CAPTRUST Advisors provides fiduciary advisory services to your plan. CAPTRUST Advisors is not affiliated with GWFS Equities, Inc.



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