

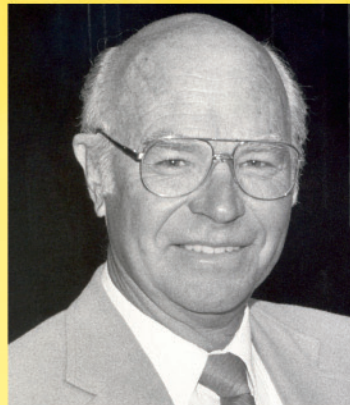
# The **b**Bergelectric *Report*

## NATIONAL

# Promises to Keep

## Reflections on the Legacy of J.R. Briscoe

*J.R. “Bob” Briscoe had a passion for tinkering and a legendary mechanical mind—whether it was launching his handcrafted boat, refining electrical installation methods to perfection, tuning his hot rod or calculating complex business moves. An insightful tribute precisely described the personality that permeated both his private and corporate lives—“a meticulous master-craftsman, he possessed the ability to grasp complicated ideas and turn them into workable solutions on any project to which he set his mind.”*



**J.R. “Bob” Briscoe**  
January 5, 1932—March 22, 2011

Just as important to Bob as building an *ENR* Top Ten firm or climbing a career ladder was dedication to family. His unwavering qualities of hard work and integrity balanced with genuine caring—which Bob instilled in the seven children he raised with his high school sweetheart Joan—were the same character traits he called upon in guiding the more than 2,000 “family members” of Bergelectric.

His last day on the job was much like that bright morning in the spring of 1954 when he first strode across the threshold of a budding electrical-contracting company—bursting with enthusiasm and plans for the future. On a walk-through tour of the massive VA Medical Center complex in Las Vegas, the once fledgling apprentice who had become CEO was in his element. Beaming as he drove away from the project site, Bob’s face reflected both pride in the people he had nurtured over the years as well as the kind of company into which Bergelectric had evolved.

During the Las Vegas national meeting that preceded the tour, Briscoe and other Berg executives had unveiled the blueprint for the company’s long-term future, which was to be formally implemented at the May 2011 board of directors’ meeting. And so, upon his unexpected passing on March 22, 2011—nearly 57 years-to-the-day upon joining Bergelectric—it’s no surprise that the guy who liked to “think ahead” had already methodically collaborated with his fellow executives on a management succession plan.

### Initiating Change: Continuous Improvements

Successfully traversing the nearly six decades from the 1950s to 2011 required raw determination balanced with a progressive attitude, vision and desire for continuous improvements. “He was truly excited about everything that increased productivity, enhanced quality and allowed Berg to create a high standard of living for the people who work here,” said newly-named Bergelectric CEO Don Briscoe.

### Just Rewards: High Performance Expectations

While Bob’s hard-driving businessman personae and natural instincts were by some standards “old school,” introducing advanced technologies and providing future stars with ample room to spread their wings could only be considered progressive and forward thinking. Perhaps the best way to sum up Bob Briscoe’s management philosophy is in his own words: “We’ve had darned good and dedicated people. On that basis we’ve been extremely successful. I just try to stay out of their way and let them do their thing.”

*“J.R. Briscoe was a meticulous master craftsman who possessed the ability to grasp complicated ideas and turn them into workable solutions on any project to which he set his mind.”*



**Don Briscoe**  
Chief Executive Officer



**Tom Anderson**  
President and Chief Operating Officer



**Bill Wingerning**  
Executive Vice President

### Solid Ground: A Legacy of Financial Stability

True-to-form, Bob’s desire for excellence also encompassed examining ways to keep the company on solid financial ground while balancing high performance expectations with rewards for a job well done. With characteristic perseverance, he was able to masterfully crunch the numbers to calculate long-term implications of a complex ownership plan that is still in place today. Putting his imprint on the plan, Briscoe ensured a sound and fiscally-healthy perpetuation of Bergelectric through which the next generation can let their lights shine.

### Passing the Baton: Guiding the Path of Succession

Throughout the mergers and acquisitions during the past few decades, Briscoe made a conscious decision to remain privately-owned, charting Berg’s own destiny and retaining ownership for key employees. As a result, Berg has preserved its unique identity and emerged as one of the largest privately-held electrical contractors in the country—strong, independent and invigorated for the next era of successful endeavors.

Whether contemplating continuous innovations, embracing new technologies or balancing rewards with long-term fiscal responsibility, Briscoe’s vision was always focused well beyond the horizon. The succession plan is a natural progression in the life of Bergelectric that taps long-tenured executives Don Briscoe as CEO, Tom Anderson in the role of President/COO and Bill Wingerning as Executive Vice President. “This company has flourished under Bob’s lifetime of devoted leadership,” reflected Anderson. Bob would be proud that his same values of pristinely-ethical business practices and progressiveness are being carried on at every level of Bergelectric today.

## INSIDE CONNECTIONS

### National

Reflections on the legacy of J.R. Briscoe.

### Best in Class

Berg launches “best in class” global improvement initiative.

### Los Angeles

Three new sports, social and spiritual projects support campus life at **USC**.

### Las Vegas

Coordination and cooperation produce results on **VA Community Based Outpatient Clinic**.

### Orange County

Berg showcases services on two **R.D. Olson** hospitality projects.

### Austin

Major medical facility at **Ft. Riley** is part of **DOD**’s biggest hospital construction program.

### San Diego

**Scripps Health**’s unprecedented **California Proton Treatment Center** is underway to offer radically-different cancer treatments.

### Arizona

Fast-tracked delivery date drives schedule on **Phoenix International Raceway** track reconfiguration.

### Colorado

New **University of Colorado** dormitory project vying for LEED Platinum certification.

### Ventura

Scheduling and planning strategies streamline project delivery and add value to **Rio Vista Elementary School**.

### Southeast

Berg mobilizes national resources on **Wells Fargo** bank conversions in Florida and North Carolina.

### Sacramento

Berg in design-assist role on \$55-million **Children’s Hospital Central California** expansion project.

### Portland

Three innovative student housing projects demonstrate progress in the new age of dormitory living.

**ENR**  
Engineering News-Record

**NO. 7**

Among electrical contractors nationwide



# Berg Launches “Best in Class” Global Improvement Initiative

*Reflecting on the phenomenal growth experienced over the past decade as Bergelectric leadership embarks on the next level of achievement; the ENR Top Ten contractor has taken the initiative to make an honest assessment of how it is perceived—both externally and internally—by asking for feedback from clients, owners, vendors and employees. While the results were often a positive affirmation of the policies and programs Berg has instituted, it also revealed areas where the company could make improvements in order to truly become “best in class.”*

In a monumental effort that involved investing over 500 hours conducting a consultant-led confidential survey, analysis of findings and presentation of results, Bergelectric has launched a plan of action that has the company well on its way to achieving “best in class” status. “Berg isn’t resting on our past success, we’re aspiring to new heights,” noted President and Chief Operating Officer Tom Anderson. “We’re going from great to best with our new mantra—Better Communication and One Berg.”

## Getting Personal: Building Better Relationships

According to Bergelectric Senior Vice President of National Operations Alan Mashburn, “Although our clients continue to give our technical capabilities—like mobilization of resources and materials handling—exceptionally high marks, there are management training and communications areas of our business that we will be focusing on toward the primary goal of building better relationships.”

Synthesizing survey feedback zeroed in on two critical components that Bergelectric clients are seeking: relationships and clear, open, candid communication. “When the survey results determined that there were specific areas that needed to be addressed, there was an absolute commitment at the very highest levels of Berg to strive toward ‘best in class’,” shared Turnkey Strategic Relations (TSR) principal Jim Ponder, who oversaw the survey effort.

## Global Involvement: Planning from the Ground Up

Once the wheels were in motion, a Berg executive committee was appointed to develop an initial “hit list” of issues to address. Best-in-class committees, consisting of co-chairs and representatives from Bergelectric’s 12 offices, were then created to target five practice areas—Superintendents, Project Managers, Estimating, Purchasing and Presentations/Proposals. Scott Humphries, who serves as National Field Operations Manager and also co-chairs the Best in Class Superintendents’ Committee, expressed the positive buy-in to the new initiative from a cross section of Bergelectric employees: “Participants are

empowered to make changes by allowing them to cull through the initial list of ideas to determine which of the issues they want to focus on. Zeroing in on this shortlist, the committee members are working together to suggest changes to procedures and refine processes that they will ultimately be responsible for implementing in the field.”

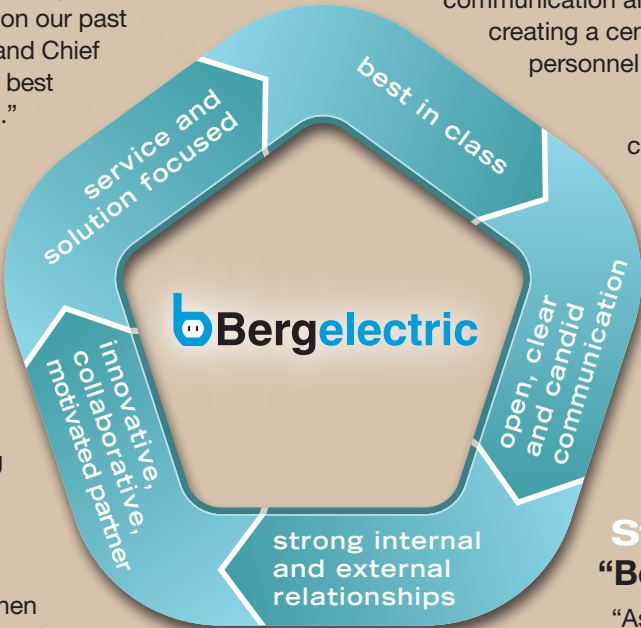
## Making it Happen: Implementing Companywide Procedures & Training

“Working toward agreed-upon goals, each subcommittee’s task is to make recommendations and present solutions; then the executive committee will commit the resources and make the appropriate procedural changes companywide,” noted Mashburn, who is part of the Best in Class Executive Committee. Best in Class leaders, such as the Estimating Committee Co-chair Chris Billig, are already seeing positive results. “There’s been more sharing of information and better communication among offices through standardization of procedures and creating a central platform that all estimating and preconstruction personnel can access.”

Since presentation skills are essential to conveying concepts and concerns—on the job site and even on the most informal relationship-building levels—Berg is jump-starting a wave of new training that has already guided more than 200 individuals through a comprehensive program that focuses on how to both effectively communicate and understand how others may perceive them. According to Steve Carr, a Colorado-based co-chair of the purchasing committee, “An essential element of the communication training program’s success is that each individual is armed with a very specific and personalized action plan.”

## Striving to be the Best: “Better Communication & One Berg”

“As strong as Berg is, I believe the ultimate goal is to have employees who are empowered and engaged every day and wanting to always move Berg toward best in class,” TSR’s Ponder declared. To that end, Bergelectric has committed to implementing project progress surveys, which will glean feedback from owners, general contractors and key stakeholders involved in projects as they are underway, as well as a benchmark survey to determine Berg’s overall progress. “As a result of the Best in Class initiative, we’ve already started receiving success stories related to people reaching out to foster relationships,” said Mashburn.



*“We’re going from great to best with our new mantra—Better Communication and One Berg.”*



# Modeling Expertise Pays Off in Las Vegas

## Coordination and Cooperation Produce Results on VA Outpatient Clinic

*In Southern Nevada, the **Veterans Administration (VA) Healthcare System** “exists to honor America’s Veterans by providing exceptional healthcare that improves their health and well-being.” Bergelectric has been at the forefront of delivering on this mission through their involvement in nearly \$1 billion in construction of **VA medical facilities**. Its latest endeavor is the 31,000-sf **Community Based Outpatient Clinic (CBOC) IV** in the northeast section of the Las Vegas Valley—one of four new facilities that will “give our veterans access to primary and specialty care, mental-health services and diagnostics close to where they live.”*

Bergelectric’s experience on medical facilities with **SR Construction**, as well as its knowledge of the **VA** system, created real value to the owner/developer, as well as the design and construction team. Developing the property is **SDA**, which will provide a long-term lease to the **VA** for the \$6.2-million turnkey facility featuring treatment and exam rooms, laboratory, radiology and pharmacy. The low-voltage systems that Bergelectric is providing—fire-alarm, tel/data, closed-circuit television (CCTV), as well as a duress-alarm system used to notify staff in the event of a

patient fall or similar event—will address the security measures specified for each area within the **VA** clinic.

Under the leadership of general contractor **SR Construction**, Bergelectric is installing all electrical power and distribution systems, in addition to connecting the clinic with the existing security systems at the massive new Las Vegas VA Medical Center—all originally installed by Bergelectric.

## Design-Assist Involvement Saves in the Long-run

“Our team’s early involvement in the planning of the clinic, through the use of Building Information Modeling (BIM), really paid off in the long run by thinking ahead about such issues as overhead coordination in the field,” noted Bergelectric Project Manager Gene Burton. Using the Autodesk Revit program during the design-assist effort revealed that the building’s roof would need to be raised in order to accommodate equipment such as air ducts and cable trays, while still being able to meet the **VA** requirement of a 9-foot ceiling clearance. “To comply with the **VA**’s objectives, while design changes were being made the construction team put forth an intensely-coordinated effort to change the sequencing of tasks and keep the aggressively-scheduled project on track for its opening in November 2011,” added Bergelectric Superintendent Mike McGowan.



# Building on USC Spirit



## New Sports, Social and Spiritual Projects Support Campus Life

More than 130 years since its founding in 1880, the **University of Southern California** (USC) boasts an impressive standing as the oldest private research university in the West. With a vibrant capital improvement program **USC** continues to develop modern state-of-the-art facilities to serve the changing needs of the campus. During the past 17 years, the university and general contractors have called upon Bergelectric’s expertise time and again for the delivery of a wide array of facilities on and around the 155-acre urban campus.

### USC’s Mission: “Cultivating the Human Mind and Spirit”

Until recently, spiritual needs of the university-wide community of 10,000 Catholic students was served by a hard-to-find and relatively incognito building that was hidden away in a far corner of the campus. Although last fall marked the end of an era with the decommissioning of the 50-year-old building that served the parish, the somber ceremony was quickly followed by groundbreaking for the exciting new \$17-million **Our Savior Parish** and **USC Caruso Catholic Center** just a block north of the campus. Breaking out of its former “quaint” mold, design of the new church will be reminiscent of the towers and Romanesque splendor of such campus landmark buildings as the Doheny Memorial Library.



Bergelectric has teamed with **Matt Construction** to build the new 19,800-sf **Our Savior Parish** and **USC Caruso Catholic Center** in Los Angeles.

In addition to providing a more easily accessible place to worship, **USC** students will be able to participate in social activities at the 19,800-sf complex that includes a center named after lead donor and Southern California developer, Rick Caruso. The new **USC Caruso Catholic Center** will serve as a “home-away-from-home” for students. According to William Marsh, **Huntington Management LLC’s** Project Manager overseeing the construction on behalf

of the **Los Angeles Archdiocese**, the project will fulfill the mission to “create a very specific sense of place connected to the **University of Southern California** campus.”

Teaming again with general contractor **Matt Construction**—the contractor that is turning the visions of the archdiocese and the architect into reality—Berg is paying scrupulous attention to details on the electrical installation, which includes a 75-foot tower that is attached to the church and contains communications systems for which Berg crews are also installing electrical services and raceways. “The magnificent stone exterior and high-end interior finishes demand the highest degree of communication to attain the most effective and attractive installation possible,” noted Bergelectric Project Manager Dean Shipcott. “Our Building Information Modeling (BIM) specialists are contributing to this goal by expertly coordinating Berg’s efforts with those of other trades on site,” Shipcott continued.

### Instilling a Team Spirit: USC John McKay Center

As home of the fighting Trojans who boast 93 National Collegiate Athletic Association (NCAA) team championships, **USC Capital Construction Development** kicked off the building of the university’s newest athletic facility—the \$70-million **USC John McKay Center**. Named after the legendary coach who led the team to four football championships, the 110,000-sf center will feature coaches’ offices, space for academic services, team meeting rooms, a reception area and state-of-the-art video production facility, in addition to weight and training rooms, locker facilities and a players’ lounge.



Bergelectric is pulling out all the stops to meet the tight schedule required to deliver the \$70-million **USC John McKay Center**, which includes offices, training and locker facilities and a players’ lounge.

Although final construction completion by general contractor **Tutor Saliba** is scheduled for August 2012, **USC** is seeking partial occupancy as early as December 2011. With this goal in mind, Bergelectric is pulling out all the stops in meeting the tight schedule required to deliver electrical power, lighting and fire-alarm systems on time. Working in an area with limited space to store materials, and on a campus where classes are still in session, further complicates the effort. “We had to think ahead with regards to materials management and equipment delivery,” said Berg Project Manager Chris Gonzales. The best laid plans are paying off. By incorporating “just-in-time” release of materials as they are needed on the job site, Gonzales and his crews are able to maintain the critical schedule as well as a safe work zone for students and faculty.

*“During the past 17 years, the university and general contractors have called upon Bergelectric’s expertise time and again for the delivery of a wide array of facilities on and around the 155-acre urban campus.”*

# Delivering Hospitality with Resources and Expertise

Based on the concept of creating a loyal customer following guided by a simple philosophy that supports quality, competitive pricing and on-time services, **R.D. Olson Construction** was founded in 1979. Its sister company, **R.D. Olson Development**, followed in the same tradition nearly 20 years later with the delivery of its first hospitality project—*Courtyard by Marriott* in Lake Forest, CA, a 156-room hotel for which Bergelectric provided electrical installation. Since that time, the southern California firm has become known as a leading hotel developer while Bergelectric has evolved into a national powerhouse. Both firms continue to achieve success in the hospitality arena as they bring their collective expertise to current projects like the **Courtyard Marriott** in Oceanside, CA and the **Long Beach Hyatt Regency** remodel.

### Powering Up a New Generation of Amenities: Courtyard Marriott Oceanside

Today, **R.D. Olson** is maintaining its leadership position with five **Marriott** properties currently in development, including the newest prototype design—the 142-room “**Generation 4.5 Courtyard**” in Oceanside, CA. Located in the Ocean Ranch development, which has already attracted a number of Fortune 500 companies, it’s the perfect location to showcase **Marriott’s** latest business-traveler amenities. Berg is installing electrical and tel/data service for the business-savvy design of the 82,000-sf hotel, which incorporates Internet access throughout the four-story structure as well as specially-designed business work spaces. Further tapping technologies, guests will have access to media pods and interactive “GoBoard” displays that provide up-to-the-minute information on news, weather, traffic and restaurants.

Because this is the fourth hotel on which Bergelectric has teamed with **R.D. Olson**, the developer was certain that Berg would have the resources and capabilities for delivering on the 10-month fast-track schedule. “By detailing the layout of walls and electrical control rooms, as well as prefabricating units for each of the guest rooms and suites, we are able to dramatically streamline installation,” noted Bergelectric Project Manager Bob Marsh. With Berg’s in-house capabilities, which encompass a turnkey design-build fire-alarm system that precisely meets **Marriott** standards, **R.D. Olson** can confidently commit to a grand opening date for the \$25-million hotel.

### Regal Remodel: Hyatt Regency Long Beach

Rising above the glistening harbor where the Queen Mary resides in stately splendor is the **Hyatt Regency Long Beach**. This 17-story grand dame is in the process of getting a facelift by general contractor **R.D. Olson** that will meet **Hyatt’s** latest hotel design standards.

Bergelectric took a unique approach to launching the update of the hotel’s rooms, suites, and adjoining corridors. “Our crews prepared a complete mock-up for each room type in the hotel, which enabled both **Hyatt** and the architect to get a clear visual of how the final installation would appear,” shared Berg Project Manager Craig Gable. Utilizing actual rooms, Berg’s installation mirrored the switches, phone and Wi-Fi locations, fire alarms, lighting and finishes from the architect’s design drawings, which provided an opportunity to make adjustments prior to charging full speed ahead with completion of all 508 rooms.

Besides its proven track record on **R.D. Olson** hotel construction projects, Bergelectric’s ability to mobilize manpower to maintain the fast-paced schedule was a primary factor in being chosen for this assignment. “We’ve essentially choreographed the teams to tackle two floors at a time, which will minimize disruption to reservations as well as **Hyatt** guests,” added Berg Superintendent Robert Van Son.

Courtyard Marriott Oceanside



Hyatt Regency Long Beach







# BUILDING BOOM

## Major Medical Facility at Ft. Riley is Part of DOD's Biggest Hospital Construction Program

*With a rich history all its own—which includes being the first D-Day troops to step onto the beaches of Normandy during World War II—**Fort Riley's First Infantry Division** continues to gallantly serve our country. Whether training other service members in support of the Army's Transition Team in Iraq and Afghanistan or deploying security forces around the world; this heartland Army base located in eastern Kansas remains a critical component of U.S. military might.*

Two active wars that brought thousands of wounded soldiers into the military healthcare system, coupled with aging facilities and changes resulting from base realignment, have prompted the largest hospital building program in **Department of Defense (DOD)** history. Thanks to over \$6 billion in funding, installations such as **Fort Riley** are experiencing an unprecedented boom in hospital construction that will change the face of patient care.

### Joint Ventures Offer Added Depth in Expertise and Resources

**Fort Riley's** existing **Irwin Community Hospital** has seen over a half century of active duty of its own. By the summer of 2013, however, a 26-month, fast-tracked construction effort under the guidance of the general contractor—**Balfour Beatty Construction** in a joint venture with **Walton Construction** (Balfour/Walton)—will enable the fort's new \$344-million hospital to offer state-of-the-art healthcare.

The 552,000-sf **Irwin Community Replacement Hospital**, which promises patient-friendly, evidence-based design provided by **LEO A DALY** in a joint venture with **RLF**, is being delivered utilizing Early Contractor Involvement (ECI) that emphasizes a partnership of cooperation between the **U.S. Army Corps of Engineers** (USACE), as well as the design team and contractor.

The electrical construction effort is massive—including complete lighting, power systems, central energy plant, emergency generator, automatic transfer switches and paralleling switchgear, as well as all low-voltage systems for a 263,000-sf hospital and 289,000-sf medical clinic. To best serve **Balfour/Walton** and the **USACE**—the tried-and-true partnership of the Bergelectric and **Faith Technologies** came together to form **Bergelectric-Faith, Joint Venture**—

established to provide both unmatched project-specific expertise and depth of resources for the new hospital electrical installation.

According to David Jahner, a regional V.P. for **Faith**, “We worked with Berg's V.P. of National Operations Alan Mashburn, to create an unbeatable team that offers the best of both companies and a shared vision for project success that includes lean construction, safety expertise and a genuine concern for the client.”

### Pinpoint Accurate Budgets from Concept to Bid

In addition to **Balfour/Walton's** impeccable track record on the construction of more than \$5 billion in federal facilities, Bergelectric brings an impressive resume of its own to the table. “The historical database from Berg's recent military and hospital facilities across the nation, which we meticulously maintain, allowed us to develop a highly-accurate and up-to-date budget during the project's conceptual phase more than a year before the final bid,” noted Bergelectric's lead estimator on the project, Dan Melroy. Working closely with **Faith Technologies** estimator Don Thompson, the joint venture developed the initial conceptual estimate that was not simply based on square footage, but included more than 500 specific line-items. “Ultimately, the estimate was so detailed and project-specific that we were able to hold to that budget throughout the preconstruction process to provide both **Balfour/Walton** and the **USACE** with a real-value estimate on which they can confidently hang their hats,” added Berg Project Manager Jason Myers, who serves as point man for the **Bergelectric-Faith** team.

*“At the home of the 'Big Red One,' Ft. Riley, Kansas, the electrical construction effort for the new \$344-million Irwin Community Hospital Replacement is massive.”*

### Best of the Best: National Resources

Through the leadership of National Director of Field Operations Scott Humphries, Bergelectric is drawing upon the expertise and resources from over a half-dozen offices from coast-to-coast. “By tapping into Berg's own in-house detailing, prefabrication, tel/data, fire-alarm, security and nurse-call capabilities, the joint venture is able to better control quality and timing,” noted Bergelectric V.P. of National Operations Carl Zirkus. From its offices within close proximity to **Fort Riley**, **Faith Technologies** is also able to quickly mobilize field crews on the project site to provide an ample and well-trained labor force.

# Fast-Track Race Track

## Accelerating Schedule on NASCAR Raceway

*By 1964, the National Association for Stock Auto Racing—better known as NASCAR—had become an American tradition and **Phoenix International Raceway (PIR)** in Avondale, AZ started off its race season. Legendary driver A.J. Foyt won the oval track's first race by clocking in at an average pace of just over 107 mph. Today, in a \$12.5-million design-build effort headed by general contractor **Howard S. Wright**, Bergelectric is helping to make history in a fast-track effort that will deliver a reconfigured track surface and lighting improvements to enhance the spectator experience by enabling the drivers to race side-by-side while also increasing speeds.*

Forty years after first opening, **Phoenix Speedway Corp.** added over 1,000 light fixtures to **PIR** that generated a staggering 1.5-million watts of power per hour. As part of the latest improvements, Bergelectric added 40-foot light poles between critical turns two and three so that fans can get a better view of the action, as well as new lighting in front of the revamped pit area. “Each of the pits will function independently with its own electrical set up, data conduit and power panels,” said Bergelectric General Superintendent Mike Faust. Berg crews ran 100-Amp feeds to provide plenty of juice for the circuitry in each of the 11 new concrete pit boxes—all of which required the installation of several miles of conduit throughout the reconfigured track.

### The Need for Speed: Maximizing Installation Efficiencies

“Prefabrication of all the lighting conduit, data boxes and outlets is really helping us keep pace with our installation crews so we can meet the accelerated construction schedule,” noted Bergelectric Project Manager Kurt Linsenmayer. Although Berg's work will be completed in only four months, the high-velocity delivery date for the entire project will be November 2011—just in time for the NASCAR Nationwide Series—the Kolbalt Tools 500 where drivers are expected to race around the track at speeds in excess of 135 mph.



*As part of a \$12.5-million design-build effort headed up by **Howard S. Wright**, Bergelectric is racing through lighting and electrical improvements that will allow fans to get a better view of the action at the **Phoenix International Raceway** in Avondale, Arizona.*

*“With its design-build expertise, Berg has been contributing lots of ideas for alternative solutions for both products and layout—providing savings in cost and schedule.”*

Jay McQuarie, Project Manager, Howard S. Wright



# Accelerating HEALING

## Unprecedented Proton Treatment Center Underway in San Diego

*A revolutionary technology was introduced in 1990 that added a powerful weapon to the arsenal in the fight against cancer. Now over two decades later, the second facility in the Western U.S. to offer this radically-different treatment is underway in San Diego, CA. Unlike less precise conventional X-ray radiation, proton therapy's more "aggressive approach" to destroying cancerous tumors focuses on potent doses of a high-speed proton beam that is accelerated to approximately 100,000 miles per second and can be shaped in three dimensions to target tumors with pinpoint accuracy while eliminating damage to surrounding healthy tissue and reducing side effects.*

Thanks to **Advanced Particle Therapy, LLC**, a company that delivers completely turnkey proton treatment centers to cutting-edge healthcare providers from coast-to-coast, patients of **Scripps Health** will soon have access to this state-of-the-art technology through the **California Proton Treatment Center**. The \$185-million center, which will be the only one in the state to offer full diagnostic services that includes MRI, CT scan and PET CT scan rooms, as well as space dedicated to research and an unprecedented total of five treatment rooms, is expected to be treating up to 2,400 patients annually by the first quarter of 2013.

### Experience Counts—Understanding the Nuances

Senior Project Manager Steve Meek is at the helm of the premier healthcare facility design-builder in the country, **The Haskell Company**, which is serving in a

*To support each end of the massive 14-foot-thick walls, rebar mats were tightly spaced at 8 inches on center. Within the interior walls, rebar that was placed at 10-inches-on-center intervals challenged the Berg field crews by severely restricting the area within which they were able to perform the electrical installation.*



multifaceted capacity as general contractor, architect and electrical engineer. As electrical subcontractor, Berg's specialized experience in imaging installations and the latest hospital technologies is proving particularly valuable on the **California Proton Treatment Center**.

"Understanding the nuances of providing and installing the right equipment to meet specific requirements of the different rooms—like the use of non-ferrous metals, non-fluorescent fixtures and dimming capabilities—is essential to a delivering a well-performing facility," explained Bergelectric Project Manager Jared Rury.

### In the Thick of Things—Surmounting an Unparalleled Conduit Installation

In order to isolate the proton particles, each of the five treatment rooms, which are lined up side-by-side within the 102,000-sf facility, is separated by mammoth 14-foot-thick concrete walls. Supporting the massive weight of the interior walls are rebar mats spaced closely together at 10-inches-on-center intervals, which severely restricts the area within which Berg is able to perform the electrical installation.

Within this heavy-duty structure, Bergelectric crews installed perfectly-spaced conduit that connects a single 90-ton cyclotron to each of the treatment rooms. Additional precautions, such as installing back-to-back 90-degree radii to ensure the protons cannot escape, are also being taken by Berg field personnel. "An extremely accurate layout and Building Information Modeling (BIM) provided by our in-house detailer Wayne Thompson allowed us to move forward on the installation with confidence," noted Bergelectric Foreman Clint Dart.

Further challenging available work space, the wall pours averaged 500 yards of concrete and required up to 55,000 pounds of rebar. According to Berg Foreman Chris Mason, "The sheer volume of materials and number of personnel on the project site required an intense coordination effort that involved continuous cooperation with the concrete and rebar subcontractors in order for it all to work in unison and maintain the fast-paced schedule."

*"Understanding the nuances of providing and installing the right equipment to meet specific requirements of the different rooms is essential to delivering a well-performing facility."*



*The \$185-million **California Proton Treatment Center** in San Diego is expected to be treating up to 2,400 patients annually by the first quarter of 2013.*

# Platinum Pacesetter

## New University of Colorado Dorm Vying for Highest LEED Certification

*In a Rocky Mountain community where caring for the environment comes quite naturally, the **University of Colorado in Boulder** (CU-Boulder) is about to open the doors of a new six-story residence hall to those returning for the fall semester, which will suit the lifestyle of eco-friendly students by allowing them to "walk the talk" through innovative residential academic programs. **Williams Village North** is a dormitory complex set to be the nation's first university residence hall to receive the highest designation under the U.S. Green Building Council's LEED rating system—a Platinum certification.*

### Design-Build Energy Savings

Incorporating such innovative energy misers as a solar-powered domestic hot water system to harness renewable energy was the brainchild of **Aller-Lingle-Massey Architects P.C.**, the Architect of Record that teamed with **Mackey Mitchell Architects** and the general contractor, the **Whiting-Turner Contracting Company** to win the design-build competition for the \$35-million facility. Working closely with electrical designer **BCER Engineers**, Bergelectric is performing many of the core services that will help make the Platinum rating possible—including installation of power, interior lighting and site lighting renovations to enhance energy efficiency.

### Teaching by Example: Conserving Electricity

**Williams Village North**'s 500 residents can take advantage of the living-learning experience through courses offered in their own dorm without ever leaving the building. Approximately 8,000 square feet of the facility will be reserved for seven smart classrooms featuring wireless internet and teleconferencing capabilities

which will enable environmentally-conscious students to reach out in real time to others either across the **CU-Boulder** campus or around the world. According to Bergelectric Project Manager Jeff Fischer,

"Every aspect of the electrical installation throughout this trailblazing academic facility has energy conservation in mind—from the LED light fixtures located in all the corridors to occupancy sensors installed in each of the offices and classrooms."

### Passive or Conscious: Everyone Saves

If residents forget to "hit the switch," vacancy sensors located in all dorm rooms will shut lights off when no one is at home. "We've even tackled the issue of energy draw from appliances like phone chargers, computers and coffee pots that continue to use power when they're plugged in but turned off," noted Bergelectric General Foreman Dan Ratzloff. By installing "phantom load" switches in residence rooms, occupants can cut power to all receptacles upon leaving with the flick of one switch, which will ultimately save hundreds of watt-hours.

Expanding opportunities to save electricity while creating a little healthy competition, Berg crews have installed electric submeters on each floor and in each wing of the 129,000-sf facility. "These submeters will allow students to monitor their own consumption and compete for the lowest usage," explained Doug Strickler, Bergelectric superintendent for this record-breaking facility.



*At the **University of Colorado in Boulder**, the \$35-million **Williams Village North** is a dormitory complex vying to be the nation's first university residence hall to receive the highest designation under the U.S. Green Building Council's LEED rating system—a Platinum certification.*





# Learning from Experience

## Scheduling and Planning Strategies Add Value to Elementary School

*Tucked below the Los Padres National Forest in Ventura County—amid the citrus groves of the Santa Clara River Valley—is a gem of turn-of-the-century architecture. Because of its small town atmosphere and classic good looks, downtown Fillmore, CA is a much-sought-after filming location for both the big screen and television. The area’s first school house was built in 1874, long before the town’s official founding or the “orange rush” that would attract well-known names like Sunkist.*

Fillmore’s rich agricultural history and preserved charm inspired developers of a new master planned community, which includes capital facilities improvements to support the nearly 1,000 homes that will ultimately be built. One of the conditions of approval for the 300-acre development is the construction of the **Rio Vista Elementary School**, which will soon accommodate 600 students from families who call “The Bridges at Heritage Valley Park” home.

Working closely with the **Fillmore Unified School District** in delivery of the 10-acre campus is **Edge Development**, the largest general contractor in Southern California’s Inland Empire. Over the past several years Bergelectric has helped **Edge** deliver over \$85-million in educational facilities—from a major high school expansion to construction projects on several University of California campuses.

### Streamlining Project Delivery

Saving both significant time and building costs, **Edge** will utilize a design by **PJHM Architects, Inc.**, which they have successfully implemented at other

Southern California school locations, and tailor it to fit the unique requirements of **Rio Vista Elementary**. The result is a streamlined delivery schedule that enables construction time to be compressed to only one year. “Bergelectric’s contribution to trimming the schedule primarily focuses on critical coordination with other trades to arrange installations so that our crews can be working on site for extended periods, rather than short spurts that interrupt work flow,” noted Berg Foreman Todd Bruner. The end result will be a condensed project delivery of the \$15-million **Rio Vista Elementary School** that is half the normal two-year schedule.

Included in the 50,000 square feet of space are special science, music and performance classrooms, as well as standard teaching classrooms, resource areas, library, kitchen/cafeteria and staff lounge. In addition to installing site utilities powered by a 3,000-Amp service, Berg is providing underground infrastructure to connect the four buildings that comprise the campus.

### Expanding Ways to Save

By relying on in-house expertise rather than outside sources, Berg is able to confidently commit to delivery times. “We have developed a complete light fixture package for the school and a comprehensive low-voltage system that encompasses tel/data, public address, security, lighting control and fire alarm,” noted Bergelectric Superintendent Ron Crane. Constant monitoring of the commodities market enables Berg to strategically place material orders to get the best pricing possible. When concern over PVC shortages, which Berg uses in conduit installation, threatened to impact both budget and schedule, Berg purchased as much of the material in advance. “By planning ahead we were able to lock in pricing and have the PVC on hand to release to the job site as needed,” added Bergelectric Project Manager Tomas Lopez.

# Children's Hospital Central California

## Berg in Design-Assist Role on \$55-million Expansion Project



*More than 60 years ago, when a group of community-minded women envisioned a pediatric hospital dedicated to serving the needs of area kids, the **Children’s Hospital Central California (CHCC)** was born. Today, their dream has developed into a 50-acre campus that has set its sights on becoming “the preeminent provider of pediatric services for Central California and the Western United States.”*

From its 340-bed facility—in the heart of the San Joaquin Valley just below the majestic Sierra Nevada mountains—**CHCC**’s watchword “amazing people, incredible care” is delivered on each of the over 9,000 annual pediatric surgeries performed in the nationally-recognized Craycroft Cancer Center and within its premier Pediatric and Neonatal Intensive Care Units (ICUs). Through the \$55-million expansion program currently in progress under the guidance of **Turner Construction Company**—the nation’s largest builder of healthcare facilities—**CHCC** is experiencing a real growth surge.

### A Delicate Operation: Electrical Tie-In

Following a thorough investigation of the existing hospital electrical system, Bergelectric partnered with **Turner Construction** in a presentation to hospital administration during which Berg professionals laid out a well-conceived, step-by-step plan for the design and verification of the electrical system that will power **CHCC**’s 66,000-sf expansion. Painsstaking efforts to provide the appropriate service for each specific hospital use is culminating in construction and installation of a comprehensive three-part electrical distribution structure that features normal, life-safety and critical systems to directly address the unique requirements of each.

Collaborating closely with both **Karlsberger Architecture** and electrical engineer **Mazzetti & Associates**, Berg is also serving in a design-assist role. Since construction crews are working in a fully-operational medical facility, Berg’s

responsibility for providing design solutions and details for the electrical feed tie-in to the new expansion is particularly crucial. “Existing conditions with the hospital’s electrical power-feed configuration made it necessary to design and implement an alternate solution for the construction and tie-in of the system,” stated Bergelectric Project Manager Troy Smith.

### Things are Looking Up: Overhead Systems

Extremely limited space above the ceiling line makes overhead installation of system components and seismic bracing even more challenging during construction of the **CHCC** expansion. In order to get a realistic picture of what crews would actually encounter in the field, Berg’s detailing department worked in partnership with **Turner Construction**, as well as other subcontractors, in the creation of 3D drawings related to overhead-systems installation.

Once construction began in earnest, close coordination with other trades and implementation of Berg’s proven material distribution system minimized conflicts and delays. “By keeping our electricians supplied with “just-in-time” materials and delivering the right components close to their areas of assignment, our well-established protocol became an essential part of the installation process and keeping the project on track,” explained Berg General Foreman Rich Thompson.

Upon completion in late 2011, the expansion to the medical center’s Emergency Department, Pediatric ICU, Surgical Suites and Imaging Center, as well as modernization of existing patient-care facilities, will provide improved care to the growing number of kids—which is now approaching 1.2 million—in **Children’s Hospital Central California**’s service area.



*Slated for completion in late 2011, the **Children’s Hospital Central California** expansion project includes changes to the medical center’s Emergency Department, Surgical Suites and Imaging Center, as well as modernization of existing patient-care facilities.*



# The Power of a NAME

## Electrifying Wells Fargo Sign Replacement Program

When financial-services goliath **Wells Fargo & Co.** acquired Wachovia Corp. in 2008, a company with “\$1.4 trillion in assets . . . and a community-banking group spanning 39 states” was born. Over the past three years Wells Fargo has been in the process of branding hundreds of locations across the country, including “stores” in both Florida and North Carolina, which were impacted by the merger.

When **Wells Fargo** was ready to convert Wachovia’s Florida community-banking locations they called on **Atlas Signs**, a company leading the industry in custom sign design and complete turnkey manufacturing through its fully-integrated project management approach. A referral from Bergelectric’s Denver Service Manager Rob Parkhurst set the wheels in motion for both **Atlas** and **Wells Fargo** to tap into Berg’s nationwide resources. Over a five-month period, Berg crews are being mobilized to provide power to illuminated storefront and pylon signs in 126 locations in both southeast Florida and the Raleigh-Durham, NC area.

### Communication and Flexibility Are Keys to Implementation

According to Bergelectric Project Manager Rob Ford, who is responsible for the Florida effort that entails completing 56 installations in just six weeks, these



BEFORE



AFTER

**Wells Fargo** branches are scattered over a 175-mile radius. The key to being able to power up so many signs in such a short period of time is the constant communication taking place between Berg service teams and **Atlas**. “Because the bank personnel at each site were not always aware of the details of existing electrical conditions for signage, there has been a lot of juggling of Bergelectric service personnel and equipment in order to maintain the tight schedule,” Ford continued.

While trucks and crews were rerouted to other **Wells Fargo** branches, Berg’s Southeast Purchasing Agent Michele Buck was able to expedite the process by identifying the closest electrical supply house. “I was briefed on the store locations scheduled for the day and went to work immediately to map out suppliers, which saved countless hours in obtaining the appropriate materials quickly,” noted Buck. This sort of “going the extra mile” and intense collaboration will be the same recipe for success that Bergelectric will be utilizing on the 70 sign installations to be accomplished in the Raleigh-Durham, North Carolina area under the guidance of Bergelectric Project Manager Jedd Tetreault.

*Tapping into its nationwide resources, Berg crews provided power to illuminate **Wells Fargo** storefront and pylon signs in 126 locations in both Florida and North Carolina.*

## A New Age in

## Dormitory Living

### Berg Participating in Three Innovative Student Housing Projects

“In the city, on the coast, in the mountains”—the seven public universities that comprise the **Oregon University System (OUS)** are as academically diverse as the geography that defines them. A systemwide long-range plan focuses on not only growing **OUS** enrollment beyond its current 123,000 students, but also on increasing the percentage of undergraduates housed on campus.

Three institutions across the state—the **University of Oregon**, Eugene; **Portland State University**; and **Oregon State University**, Corvallis—are all in the throes of building student-housing projects that will usher in a new age of dormitory living. True to **OUS**’s goal of “creating original knowledge and advancing innovation,” Bergelectric is playing a key role in delivering complete electrical, fire-alarm, tel/data and security systems for each of these progressive facilities, which are blurring the lines between academic and residential life.

#### University of Oregon: Integrating Learning and Living in Eugene

Recognized as **OUS**’s “flagship public university,” the **University of Oregon** offers world-class teaching and research at the Eugene campus. General contractor **Hoffman Construction Company** is leading the effort on the new \$71.5-million **East Campus Residence Hall**, which will house 454 undergraduates. The 185,000-sf facility is designed by **Zimmer Gunsul Frasca Architects** to include features such as on-site classrooms, multimedia presentation practice rooms and a multipurpose/performance center complete with a control room and event lighting—all combined to integrate learning and living under one roof.

According to Bergelectric Project Manager Paul Peterson, residents of **East Campus Residence Hall** will be engaged in a little friendly competition through the use of energy monitors, which allow them to track electrical consumption to determine which areas of the facility are most energy-efficient.

#### Portland State University: Rising to the Head of the Class

Towering 16 stories into the city skyline is **Portland State University**’s (PSU’s) **College Station**, a 283-unit residential facility that is the brainchild of a partnership between **American Campus Communities (ACC)**, a company that invested \$90 million in development, and **PSU** which signed a 65-year lease. By reserving a portion of the building for a fitness area and future first-floor retail space, **PSU** is fulfilling its vision of becoming an “internationally recognized urban university known for excellence in student housing.”

General contractor **Walsh Construction** is responsible for delivering the mixed-use development that will provide a lecture hall, classrooms and uniquely-designed social lounge areas, in addition to much-needed housing for nearly 1,000 students at the urban campus. “We are able to streamline installation through the extensive use of prefabrication of outlets, tel/data devices and overhead conduit rack systems located throughout the 375,000-sf facility,” noted Bergelectric Project Manager Sean Cox.

Getting the biggest bang for the buck also requires being constantly aware of fluctuations in materials pricing. With other Oregon educational projects underway simultaneously, Berg seized the opportunity for a large material buyout that reduced materials costs on the **College Station** project.

#### Oregon State University: Enjoying International Campus Life in Corvallis

**Oregon State University (OSU)** in Corvallis boasts a student body that includes knowledge seekers from more than 100 countries. Geared toward providing residents with the opportunity to learn about other cultures, the **OSU INTO Center** is a blend of academic, residential and retail facilities being built by **Fortis Construction**. The 156,000-sf facility is as unique in its “Z” shape as it is in the different amenities offered that “bridge academics and residential living.”

The \$55-million **International Living Learning Center** also offers 26 on-site classrooms, a general purpose auditorium, and lounge/study areas accessible 24/7, as well as a coffee shop and a market literally “down the hall”. “Because of the mixed-use nature of the facility, our crews are required to expertly navigate between residential and commercial electrical codes,” explained Bergelectric Superintendent Mike Johnson. “The two different types of construction also doubled the amount of modeling time by our detailers to ensure accuracy, but the effort ultimately provided us with an end product that was both constructible and meets the university’s vision,” added Bergelectric Project Manager Paul Peterson.

*“Bergelectric is delivering complete electrical, fire-alarm, tel/data and security systems for progressive residential facilities at three separate locations for the Oregon University System.”*



Portland State University, College Station



University of Oregon, East Campus Residence Hall



Oregon State University, INTO-OSU Living-Learning Center

*Bergelectric is playing a key role in delivering complete electrical, fire alarm, tel/data and security systems for three **Oregon University System** student housing projects aimed at increasing the percentage of undergraduates housed on campus.*



# REPORT



PRSR.T. STD.  
U.S. POSTAGE  
**PAID**  
PERMIT #2325  
SAN DIEGO, CA

**Bergelectric Corp.**  
Contractors & Engineers  
650 Oppe Street  
Escondido, CA 92029  
An Equal Opportunity Employer

## A message from the president

### Record Backlog and Pursuit of Best in Class

Embracing Core Strengths and Improving Performance for Continued Success



**Tom Anderson**  
President and Chief Operating Officer

*First of all, thanks to the Bergelectric Board of Directors, employees and clients for making it possible for me to lead as President. With 36 years at Berg behind me, I am energized as we enter into this new era and its possibilities!*

Reflecting back to the Fall of 2008, I knew this financial crisis would be a test of our ability to deliver projects more efficiently, at tighter margins with more competition. All 2,000 Berg employees responded by embracing our core strengths and improving performance.

Today we have a record backlog approaching \$500 million and an extremely bright future. Our financial strength, geographic diversity and a proven track record in both private and public sectors, as well as unsurpassed diversity in the types of projects we construct, have fueled our success.

Looking forward, we are aggressively pursuing “Best in Class” performance. This effort started with over 500 hours of interviews with both clients and employees. Our response has been to launch extensive training to hundreds of Berg professionals.

*“Today we have a record backlog approaching \$500 million and an extremely bright future.”*

Performance evaluations will be provided to our clients in the near future—stimulating continuous feedback. This knowledge will improve performance and drive Berg to “Best in Class” status—allowing us to improve one project at a time.

Preconstruction services have been improved and expanded to meet the challenges of alternative delivery systems. Building Information Modeling (BIM) capabilities have been expanded with more design professionals and the use of multiple design-software systems.

Lastly, we are well on the way to improving on site productivity by at least 10%. Our electricians do not need to work harder; they need streamlined delivery systems of electrical designs with tools and electrical components arriving at the right place at the right time to facilitate an efficient installation.

My commitment to all Berg employees, consultants and clients is to relentlessly pursue “Best in Class” performance so that we can all look forward to continued success in our “new normal” economy.

Tom Anderson  
President and Chief Operating Officer, Bergelectric Corp.