

## E LIGHT COMPLETES GATEWAY HOTEL

By ~~Carol K. Lebrun, Senior Marketing Specialist~~



TOP: The Embassy Suites Hotel is nestled in the shadow of the Colorado Convention Center in downtown Denver. BOTTOM RIGHT: Windows had to be removed to install the 8'-0" diameter light fixtures in the lobby.

~~Greg Stevenson~~  
Project Manager

~~Eric Nelson~~  
Project Superintendent

~~David Wright~~  
Preconstruction

**E**Light Electric Services, Inc. has recently completed downtown Denver's newest addition to the hotel market. Located at 1420 Stout Street, the Embassy Suites Hotel is directly across from the Colorado Convention Center and steps away from the light rail.

As a gateway to the city's rejuvenated downtown scene, this 17-story, 403

room hotel stands in the shadow of the newly constructed convention center. E Light served as the electrical contractor for this 21-month construction project. The project team consisted of: General Contractor, WPM Construction, Architect, Dennis D. Smith and Engineer, Epic Consultants/Green Light Engineering.

This is the largest Embassy Suites hotel in Colorado and will be the fourth largest Embassy Suites hotel in the Americas. Plans are underway for this project to be Denver's first LEED® certified hotel. This certification means that the building meets the standard for environmental management systems that aim to reduce the environmental footprint of a business and to decrease the pollution and waste a business produces.

### AMENITIES

This hotel offers the perfect setting for business or pleasure. A contemporary convention property, the hotel is within walking distance of the best attractions in the downtown Denver area.

The hotel amenities include: *Elements*, a full-service, casual dining restaurant and plans for an additional leased restaurant; retail space; a state-of-the-art fitness facility; spa; indoor pool; business center and full valet service with a three-story, underground parking garage. The conference space includes 22,500 square feet and 14 separate meeting rooms.

### LIGHT AT THE END OF THE TUNNEL

Extensive coordination was incorporated into this project to successfully construct the 320,000 square foot hotel. This project involved tunnel form construction, which reduces money and time to build a structure because both walls and decks are formed in one operation. With meticulous coordination, E Light electrician's worked to coordinate their conduit runs with concrete workers in a simultaneous, fast-paced manner.

See EMBASSY, Page 5



## UPCOMING EVENTS

### EVENTS

Feb 9	<b>Solar Power Colorado Conference &amp; Expo</b>
Feb 15	<b>Property Mgmt. and Expo (Service Dept)</b>
Mar 2	<b>Regional Lean Construction Institute Meeting</b>

### EMPLOYEE OF THE QUARTER

By Roseanne Mullis - Dir. Human Resources

**Nominees:** \_\_\_\_\_ **Nominated by:** \_\_\_\_\_

- ~~Patricia Garcia~~ \_\_\_\_\_ Ren Schwab
- ~~Edwin Hjelmsted~~ \_\_\_\_\_ Ren Schwab
- ~~Clint Bonham~~ \_\_\_\_\_ David Wright
- ~~Joe Calkins~~ \_\_\_\_\_ Bill Dicker
- ~~Bob Bliss~~ \_\_\_\_\_ Ted Smith
- ~~Clint Bonham~~ \_\_\_\_\_ Ted Smith

See EMPLOYEE, Page 7

## BIOMETRIC SCREENING

By Roseanne Mullis, Director of Human Resources

The results from the Biometric Screening are in! Individual results remain confidential, but the company as a whole had the following summary:

- Overall good to moderate exercise with 89% engaging in moderate physical activity at least one or two times a week.
- Overall good diet of fiber with 96% saying they eat at least one or two servings per day of foods high in fiber.
- Very high tobacco usage of 39% with the national average being only 20%.
- High cholesterol ratio of 34%. Only 9% reported having high cholesterol and only 3% taking medication for it.
- High number of those with hypertension at 26% and with pre-hypertension of 50%, yet only 4% self-reported hypertension and with 4% taking medication for it.

• The self-reporting of overall health is 80%, with excellent, very good, or good health.

• Body Mass Index (BMI) and waist circumference numbers are good except that approximately 25% of those measured have a waist circumference at an abnormal level.

CIGNA Staff gave everyone his or her personal evaluation. Overall the numbers came in as we expected. As a group, our goal now is to concentrate on making healthy choices by eating better, exercising more, and perhaps making a lifestyle change for the better- such as quitting smoking.

Resources are available on the CIGNA website: [www.mycignaforhealth.com](http://www.mycignaforhealth.com), under the Wellness tab. Come see me if you need help finding resources that address your particular question.

## FACES OF THE RECOVERY ACT: VIDEO

By Sarah Kibben, Senior Marketing Specialist

E Light Wind and Solar, Inc. was recently selected for a national video campaign for the General Services Administration (GSA).

E Light was one of nine GSA-led Recovery Act projects that exemplify the agency's commitment to promote sustainability, help communities, and advance a clean energy economy.

The video highlights E Light's efforts at the Denver Federal Center to install a 7 megawatt solar photovoltaic (PV) system and features E Light Superintendent, **Ray Swain**.

This Recovery Act project, which will be completed by the end of 2011, has allowed E Light to diversify services and train employees in new skillsets related to installing solar PV systems. **Ray Swain** is someone who has directly benefited from this diversification. Watch his story by visiting this website:



Ray Swain, Superintendent, preparing for the camera.

[www.gsa.gov/portal/content/212405](http://www.gsa.gov/portal/content/212405)

## 2010 ACE AWARDS RESULTS

By Carol Kibben, Senior Marketing Specialist

Two projects were submitted to the Associated General Contractors of Colorado for the 2010 Ace Awards. E Light received one award, "Award for Merit (Silver) for Contribution to the Community" for Pikes Peak Habitat for Humanity's 100th Home, as featured in our last newsletter.

The other project submitted was Rocky Mountain Hospital for Children (RMHC) at Presbyterian/St. Luke's Medical Center for "Project of the Year, Subcontractor, \$6-\$10 Million."



### ROCKY MOUNTAIN HOSPITAL FOR CHILDREN

It can be difficult for parents to see their own children hurt, or in pain. Children are prone to bumps, bruises and emergency department visits! And when a child needs medical treatment, a hospital can be an intimidating place. Providing the best possible environment for healing and treatment begins with seeing through the eyes of a child.

In 2009, over 58,000 emergency room visits involved children at Presbyterian/St. Luke's Medical Center. With an increased need for pediatric care, HCA/HealthONE created the RMHC with a vision to set the standard with pediatric patient-focused care.

### UTILITY CORRIDOR

E Light electricians not only built an exclusive hospital for children, but also tied the new electric service to the existing hospital on campus. This was really two projects in one! New electrical service was constructed through a complicated corridor of existing utilities and conflicted with the main hospital delivery, morgue and medical gas areas. The administration of the new service had to be coordinated daily and even down to the hour! A crane was utilized to remove an existing 1500 kVA transformer from the main hospital rooftop. The

relocation of this piece of equipment allowed the new RMHC to structurally connect with the main hospital.

The electrical distribution system was modeled using 3D CADD for underground conduit coordination and navigating around a large, 5,000-gallon underground holding tank for the diesel generator. Just-in-time delivery procedures were in place, as the footprint for construction was adjacent to an existing hospital, and a medical office building which was being built 20'-0" from the new structure.

### COLORFUL ELECTRICAL

At a very young age, children's minds are stimulated by bright colors. The vibrant lime greens, oranges and blues accented throughout the hospital bring a sense of playfulness to the four-story structure that looks more like a hotel or library, and not a scary hospital. The color scheme was carried over into the lighting package that contained over 108 different fixtures. For example, the grand staircase in the two-story atrium lobby has an architectural halo of remote controlled, color-changing LED lights. This fixture accents the colorful artwork that hangs directly over the grand staircase. Additionally, above the reception area, ten-foot tall panes of glass were backlit with fluorescent lights.

For children having to receive an MRI,

equipment. The child is expected to hold very still, while the machine makes loud noises and rotates around them. To make the process a little more comfortable, the testing room has perimeter fiber optic lights on the ceiling that progressively change color.

### MILLION FOOT MANPOWER

This project peaked at 38 electricians onsite, who installed approximately 1,500,000 feet of wire! Our electricians worked through the weekends for an entire month to re-build the new electrical closet to backfeed the existing hospital's east wing service. This involved strategically scheduled outages to connect the existing power to the new addition.

E Light's hotwork and method of procedures were executed with hospital staff and weekly status meetings were held on progress updates. A typical scheduled outage was four hours and portable back-up generators were used to backfeed critical hospital loads for each scheduled power outage. Coordination and communication were critical as the shutdowns included electrical service to the air-handling units in the bone marrow transplant department, oncology, laboratory and administrative areas of the existing hospital. HCA/HealthONE had to

*See HOSPITAL, Page 7*



*Rocky Mountain Children's Hospital at Presbyterian St. Luke's Hospital (Denver, CO)*

## CLOSING PROJECTS

By ~~David Wright, Vice President, Preconstruction & Jason Wheeler, Colorado Springs Area Manager~~



Rex Field at Adams State College (Alamosa, CO).

### ADAMS STATE COLLEGE

Alamosa, CO

**Contract amount: \$2,057,140**

*Project Manager:*

~~Jason Wheeler~~

*Preconstruction:*

~~Glenn Bonham~~

*Superintendent:*

~~Glenn Bonham~~

*General Contractor:*

**Adolfson & Peterson**

This is a new mixed-use building located next to Rex Field on the Adams State College campus. The north end of the building has 4 floors of student housing for over 60 students. The new student rooms overlook REX Field. The south end first floor of the building has new locker rooms for both the home team and visiting teams as well as new concessions and gift shop.

The second floor houses all of the main mechanical equipment and is also the entry wall to the new stadium seating that overlooks the field. The third floor

has the new Grizzly Café that spans from the 3rd floor up to the 4th floor and features a new kitchen so that they can serve dinner to students and local fans during the football games.

The fourth floor contains the press boxes and media boxes for the local radio station to broadcast the games and sporting events to the community.

E Light Electric knew how important this project was to the Alamosa community and local economy, so with the support of our 6 field personnel, E Light used a local electrical contractor labor force that peaked at about 15 men. E Light also supported the college as a *Grizzly Club* Corporate Sponsor.

- Full 3D CAD
- 14 month schedule
- Able to keep money and a portion of the project in the local community

### AMONIX SOLAR TAC

Aurora, CO

**Contract amount: \$300,000**

*Project Manager:*

~~Kevin Koster~~

*Preconstruction:*

~~David Wright/Glenn Bonham~~

*Superintendent:*

~~Michael Wilkey~~

*General Contractor:*

~~Mortenson Construction~~

This project included the wiring and gear

for 13 concentrated solar photovoltaic (CPV) collectors.

### FITZSIMONS VILLAGE OFFICE BUILDING

Aurora, CO

**Contract amount: \$2,210,100**

*Project Manager:*

~~John Degenhart~~

*Preconstruction:*

~~David Wright~~

*Superintendent:*

~~Mike Haselden~~

*General Contractor:*

**Haselden Construction**

Design build, 6-story core/shell office building with stand alone 7-story parking garage. This is for Children's Hospital and was completed two months ahead of schedule.

### GREATER SANDHILL SOLAR PV

Alamosa, CO

**Contract amount: \$2,001,700**

*Project Manager:*

~~Kevin Koster~~

*Preconstruction:*

~~David Wright/Daniel~~

*Superintendent:*

~~Chris Smith~~

*General Contractor:*

**SunPower Corporation**

E Light provided and installed the DC wiring and conduit for 20 megawatt solar farm.

## NEW PROJECTS/PROJECTS IN PROGRESS

By ~~David Wright, Vice President, Preconstruction~~



Rendering of Metro State Student Success Building.

### METRO STATE COLLEGE

Denver, CO

**Contract amount: \$4,100,100**

*Project Manager:*

~~Craig Sherburne~~

*Preconstruction:*

~~Eric Suran~~

*Superintendent:*

~~Eric Nelson~~

*General Contractor:*

**Saunders Construction**

The Student Success Building is a 150,000

square foot, 4-story office and classroom building located on the Metro State campus in downtown Denver, directly across from the Pepsi Center. This project includes a raised floor system throughout with extensive lighting control and LED technology within the high-tech classrooms. Completion is scheduled for January 2012.

- Cafe and pavillion
- LEED® Gold Certification

By ~~David Wright, Vice President, Preconstruction & Design, Hooker, Colorado Springs, Missouri~~

**U.S. AIR FORCE ACADEMY SOLAR PV**  
Colorado Springs, CO

**Contract amount: ~~\$2,000,500~~**

*Project Manager:*  
~~David Wright~~  
*Preconstruction:*  
~~Aaron McDaniel~~  
*Superintendent:*  
~~Mark Adams~~  
*General Contractor:*  
**Mortenson Construction**

The array will cover 30 acres and produce six megawatts of power, enough during its peak production to provide 15 percent of the base's energy



*Pikes Peak Hospice & Palliative Care.*

**PIKES PEAK HOSPICE**  
Colorado Springs, CO

**Contract amount: ~~\$110,100~~**

**EMBASSY** CONTINUED FROM PAGE 1

By Sarah Klobnak, Senior Marketing Specialist

"Tunnel forming systems are ideal for projects that offer repetitive forming opportunities, the more repetitive steps there are, the greater the benefits," said E Light Superintendent, ~~Bob Nelson~~. "Speed is paramount with this construction method, and we were able to reduce time and cost by utilizing our own prefabrication capabilities and thorough pre-planning." All electrical components were cut to length for installation in the concrete forms and installed for just-in-time delivery.

This project demonstrated many of the principles of Lean Construction, which emphasizes coordination between design and construction. The coordination between the different

*Project Manager:*  
~~David Wright~~  
*Preconstruction:*  
~~Eric Duran~~  
*Superintendent:*  
~~Phillip Amador~~

*General Contractor:*  
**GE Johnson**

This project includes the interior renovation of a hospice facility with patient rooms in the occupied Penrose Hospital.

**NORTH SUBURBAN MEDICAL CENTER**  
Thornton, CO

**Contract amount: ~~\$500,000~~**

*Project Manager:*  
~~Ron Schmidt~~  
*Preconstruction:*  
~~Eric Duran~~  
*Superintendent:*  
~~Ed Dine~~  
*General Contractor:*  
**R.J. Griffin & Company**

This project includes a Phase I operating room expansion for completion in April 2011.

trades during construction allowed the superintendents to act as primary planners for greater efficiency impacts.



*Plans are underway for this project to be Denver's first LEED® certified hotel.*

**EARLY CHILDHOOD CENTER**  
Aurora, CO

**Contract amount: ~~\$337,000~~**  
*Project Manager:*  
~~John DeGennaro~~  
*Preconstruction:*  
~~Joe Stahl~~  
*Superintendent:*  
~~Don Walker~~  
*General Contractor:*  
**Pinkard Construction**

This project includes a 24,400 square foot childcare facility for Children's Hospital and is scheduled for completion in March 2011.



*Rendering of Clyfford Still Museum.*

**CLYFFORD STILL MUSEUM**  
Denver, CO

**Contract amount: ~~\$600,000~~**

*Project Manager:*  
~~Ron Schmidt~~  
*Preconstruction:*  
~~Joe Stahl~~  
*Superintendent:*  
~~Randy Roberts~~  
*General Contractor:*  
**Saunders Construction**

This is a new 28,000 square foot museum in downtown Denver behind the Denver Arts Museum. This facility features poured-in-place concrete construction with architectural ceilings and skylights that allow for natural light in viewing galleries.

The project will have an entry plaza with landscape lighting features and specialty controls for galleries. Completion is scheduled for August 2011.

# SERVICE DEPARTMENT

By Sarah Klobner, Senior Marketing Specialist



A major lighting retrofit decreased energy consumption by 60% at SYGMA Network.

The E Light Electric Service Department recently completed a lighting retrofit for SYGMA Network at their 4895 Geneva Street location in Denver. The 600,000 square foot cold/freezer storage distribution warehouse contains food and supplies for 10 local restaurant chains.

The project involved replacing the existing 400W metal halide fixtures with

271 new, 6-lamp T8 high-bay fixtures. In the cold storage rooms, the new fixtures are equipped with motion sensors, which are set on 30-minute timers and activate one at a time, when personnel walk down the aisle. The old fixtures, including the ballasts, lamps and metal were recycled.

“The dramatic reduction in electricity usage, coupled with motion sensor fixtures is expected to decrease energy

consumption this food-service distributor uses in its freezers by 60%, while at the same time increasing light levels by 30%,” said **Phil Robertson**, Service Sales Manager from E Light.

The warehouse height and frigid environment presented challenges for the E Light electricians. The fixtures were installed in the 40’ high warehouse while SYGMA employees maneuvered forklifts below under tight delivery schedules. The freezer alone included 55 fixtures installed in a (-4) degree environment!

This project was completed in cooperation with Wisconsin-based, Orion Energy Systems, Inc. who provides lighting upgrades to SYSCO facilities across the United States. The SYGMA Network, Inc. is a wholly owned subsidiary of SYSCO that provides food and non-food products to chain restaurants throughout the United States.



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**SYGMA Network: 4895 Geneva Street, Denver, CO**

**Lighting Retrofit**  
In 600,000 square foot cold/freezer storage distribution warehouse contains food and supplies for 10 local restaurant chains.

Electricians replaced the existing metal halide fixtures with 271 6-lamp T8 high-bay fixtures.

Reduction in electricity usage coupled with motion sensor fixtures is expected to decrease energy consumption by 60% while at the same time increasing light levels by 30%.

**E LIGHT**

**golf**  
1st Annual Charity Golf Tournament

Event Sponsors

- Knockouts Haircuts for Men
- Direct Transport Services, Inc.
- Truck Shop, Inc.
- Capital
- Nexus
- Open Gardens
- Red Lobster
- Arby's
- IBS
- Texas Roadhouse
- Knex
- A Clean Slate
- Kelley Fleet Services
- TDS
- Great Dane Tractors
- Crown
- E Light

A special thank you from the children of the Bennett School District Athletic Department and the Bennett Golf Team Scholarship Trust Fund.

E Light also supported the First Annual Charity Golf Tournament for SYGMA Denver & The Stimpert Family. 100% of the contributions were given to the Bennett School District Athletic Department and the Bennett Golf Team Scholarship Trust Fund.

The E Light Service Department was a sponsor of the 8th Annual Property Management Conference & Expo that was held on February 15th with the Colorado Real Estate Journal. The SYGMA lighting retrofit project was used as a case study for the flyer that was inserted in conference bags.

## TRAINING

By ~~Red Smith, Director of Education & Loss Prevention~~

### GETTY IMAGES

A Getty Images photographer was at the Denver Federal Center to take some shots of our solar photovoltaic project. Getty Images is a world-premiere stock photo resource.

To date, we have not received the correct guesses on our blog. Some people have placed their guess verbally to me, but you need to blog your response to win!

[www.elightelectric.com/blog](http://www.elightelectric.com/blog)

### THE "4P" MODEL OF THE E LIGHTWAY

The Lean Construction development at E Light Electric Services continues into 2011 and we are very excited about our progress. We currently have four study teams compiled of people from across the company learning about Lean Principles and applying those lessons to actively improve our processes.

This year, we will introduce more study teams as we continue to work towards our goal of helping every person at E Light understand the principles of Lean Construction and the philosophy of E Light. We have also started a new web

## HOSPITAL CONTINUED FROM PAGE 3

By ~~Sarah Kibben, Senior Marketing Specialist~~

relocate patients in these areas for the shutdowns.

### HIGH-TECH HOSPITAL

HCA/HealthONE's goal for the hospital was to provide the best technology, exclusively for children. Throughout this two-year project, our electricians had to adapt to these constant technology advancements. Our scope of work included specialty lighting, intricate conduit and coordination for the electrical rough-in of multi-million-dollar equipment. This project included a two-story main entrance; a registration center with 53 inpatient/observation beds; a 10-bed emergency department; six pediatric-specialty operating rooms, which includes an open heart operating room; a 10-bed pediatric acute care unit (PACU); post-anesthesia care unit;

gastrointestinal suite; diagnostic imaging; food court; gift shop; and a Ronald McDonald family resource center.

### SAFETY

Our work within an operating hospital provides additional challenges. E Light places safety as our first priority. Electrical circuits cannot easily be de-energized, circuitry is often mislabeled and the electrical system that is in place is a compilation of countless remodels. Every task had to be precisely planned with long hours of research, in order to develop the new electrical system. E Light electrician's worked over 58,000 manhours without a lost time accident. The crew and supervision worked diligently to provide an electrical system that met the owner's needs, a temporary power system for construction and we were able to do all



PHOTO #2

Can you identify all three people?



PHOTO #3

Do you work with this guy?



PHOTO #1

Which E Light employee is this?

blog discussion on the E Light Training website dedicated to the Lean principles and how we are trying to apply them.

Here are the foundational principles of Lean Construction as a way of introduction to the thought process:

**Philosophy:** E Light has developed a philosophy that our customers and our employees are the future to our success. We are dedicated to exceeding the expectations of our customers and promise the safest work environment possible. We offer continuous educational opportunities for our employees with a focus on quality improvement and safety.

**Process:** The right process will get the right results and we are taking a hard

look at every process in order to find the best process possible. We are doing this through observation, feedback from the field and multiple, cross sectional study groups.

**People:** Developing your people, partners and organization. We are working with our employees in educational processes and also working with our subcontractors and vendors to develop long-term relationships.

### Problem Solving:

- Developing everyone into a good problem solver
- Performing root-cause analysis for continuous learning

We are analyzing our projects and taking a look at what we did right and what we did wrong and getting to the root causes so that we can repeat the right and avoid the wrong.

this with minimal inconvenience to the operation of the hospital.

Through meticulous coordination of an intricate plan for major construction next to an existing hospital, the E Light team helped HCA/HealthONE provide the best possible environment for the healing and treatment of children. And it all began with seeing through the eyes of a child.



A bronze statue greets children at the entrance.

## GREEN JOBS AWARD

By **Carol Klobinski, Sr. Marketing Specialist**

Green jobs are a reality, and now is the time to honor the innovative companies that are creating them. E Light Wind and Solar, Inc. was chosen as one of the ten companies honored in a New York ceremony for the Green Jobs Award.



Applicants were judged on their contribution to environmental quality, the quality of their jobs and benefits, the diversity of employment opportunities, and their level of community engagement.

"We owe our success to our employees," says **David Wright**, Vice President Preconstruction. "We make it a point to invest in our staff by providing training in green technologies. Our employees also practice what we preach so we can proudly announce that this year we have been able to reduce our waste on construction sites by 50%."

For further information on the award, please visit:

[www.greenjobsaward.org/home](http://www.greenjobsaward.org/home).

Award Team:

**Carol Klobinski, Ted Smith, David Wright**

## COATS FOR COLORADO

By **Carol Klobinski, Sr. Marketing Specialist**

The 29th Annual *Coats for Colorado* drive was a huge success! E Light Electric participated this year with over 30 coats donated by employees. Special thanks to **John Calogian** for organizing the event and dropping the coats off for donation.

Since 1982, over 1,700,000 coats have been distributed to individuals and families in need by *Coats for Colorado*.



(L-R): David Wright, Perry Herrmann, Sandy Bonham.

## EMPLOYEE CONTINUED FROM PAGE 2

By **Rebecca Mulla, Sr. Human Resources**



Employee of the Quarter: Pablo Garcia

**Pablo Garcia!** A more dedicated hand you will not find!!! Pablo is always willing to go the extra mile to ensure our installation is correct and complete. He takes everything with a grain of salt and this reflects in his great attitude.

"Pablo's attitude is one of the best I have ever seen, even when taking criticism. His diligence shows in how eager he is to complete our goals and to better those goals, if possible," says **Clayton Robinson**, Foreman.

Pablo is a great leader and his attention to detail shows by his ability to teach those who do not understand. In short, Pablo is an outstanding worker and makes E Light Electric proud! Great Job! He currently works at the RC-1 Improvement project in Aurora, Colorado.



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DON'T FORGET, YOU COULD WIN ON OUR NEW E LIGHT BLOG!



See Page 7 for further information