The recently constructed Life Sciences Greenhouses are located just off campus on 820 North and 1000 East. Previously, the property was used and maintained by Grounds and it had a ‘walking’ garden containing a variety of plants and flowers which beautified the property. To make room for the construction of the new Life Sciences Building, the Cliff Building, which contained the old greenhouses, had to be relocated and this was the perfect spot.

Construction for the greenhouses started in the fall of 2010 and was completed in the summer of 2012. As with most construction projects, it came with some unique challenges, one of which was the existing soils condition. A significant amount of soil had to be removed and engineered fill imported so the buildings could be built. The area around the buildings, approximately 3 ½ acres, also had to have the existing soils improved and a ‘specialty mix’ soil installed to accommodate the needs of the plants being researched and studied by the College of Life Sciences. The Site Development Division of the Grounds Department worked getting the soil mix “just right” and then spreading it over the area at the right depth.

With advanced and fully automated temperature and lighting controls and separate rooms for research, the greenhouses will make new kinds of plant research possible at BYU. The research rooms are for authorized personnel only ensuring the integrity of the experiments. For students and public visitors the greenhouse features a beautiful conservatory. It feels like a visit to a secluded tropical island with a variety of plants and trees (most notably a ‘bird of paradise’) along a short walking path that leads to a waterfall surrounded with benches that invite contemplation.

The new state-of-the-art greenhouse facility, which has 18 separate research rooms and the conservatory, gives students a wide range of experience by being involved from planting to sales. The complex also features a 3,000-square-foot head house or work facility, which is used as a preparation area for mixing soil and sterilizing pots. The head house also incorporates office space for full-time staff, secure storage for chemicals and pesticides and an area that can be used for classroom instruction.

The new campus greenhouses are a place where one can go and observe the wonders and beauties of the plant world, and if you want a real treat while there, ask Earl Hansen, the Greenhouse Manager, to tell you about some of the plants and research taking place. It’s well worth the time spent and gives a greater appreciation for some of God’s creations.

“The conservatory feels like a visit to a secluded tropical island”
NEWS:

We wish to extend a heartfelt thanks to President and Sister Samuelson for their tremendous leadership and the many contributions they have made to BYU.

We also extend a warm welcome to Kevin J. Worthen who will commence as the new University President on May 1, 2014.

STUDENT SPOTLIGHT

Ben Birdsall

Ben Birdsall was born and raised in West Jordan and is a full-time resident at BYU majoring in Computer Engineering/Computer Science. He and his wife, Megan (his very first date) live in Orem and have two daughters, Lizzie (2) and Anna (3). Despite working twenty hours per week, keeping up his high academic standards and being a husband and father, Ben manages to achieve a good balance in his life. Ben has worked in the BYU Warehouse for four years and his work ethic is of the highest caliber. He is honest and upright in all of his dealings and demonstrates his leadership as he mentors other student employees. Ben loves “ultimate Frisbee”, football, and playing in bands, both marching and concert Jazz. He plays a host of instruments including trumpet, trombone, tuba, baritone and piano. He has gained great respect and admiration from all who work with him and will go on to accomplish great things in his future endeavors.

Keith Martin

Keith Allen Martin was born in Provo, Utah but grew up in a variety of locations including Heber City Utah, Western Samoa and Hawaii. Keith and his wife, Tana moved to Spanish Fork 17 years ago with their four children: Savannah (21, currently a junior at BYU and a 3rd-year member of the Cougarettes), Kade (18), Chloe (14), and Nash (3). Keith has been working at BYU for 16 years and currently works in Facilities Planning. He helps coach many of his kids’ sports teams including soccer, baseball and basketball. Hiking the mountain peaks and canyons along the Wasatch front and across our beautiful state is one of Keith’s favorite activities; in fact, hiking, backpacking, camping, cooking, watching movies and hanging out with family and friends are some of his greatest pleasures. Keith is an avid BYU sports fan (all BYU sports!) and a “classically-trained” yodeler.

David Boekweg

Perhaps the most important concept in taking care of any facility is preventive maintenance (PM). Statistics show that a good PM program will eliminate up to seventy percent of all equipment breakdowns. The implementation of good PM schedules will change a maintenance organization from a reactive program into a proactive one and will save precious resources. Equipment and buildings are not the only things that are helped by a good PM program. Every area of our lives is benefited by regular maintenance: educational, professional, physical, spiritual, financial, social and more. If we desire to improve in these areas, it is a good idea to schedule regular PM time in our personal lives. Some good examples of these are: skills training, scripture study, exercise, proper nutrition and sleep, and meaningful recreation.

I recently read a book entitled The Slight Edge by Jeff Olson. Its premise is that many, if not most, significant successes are the direct result of consistently doing small, positive, daily actions over an extended period of time (years). It is a book I highly recommend.

No piece of equipment is more important to maintain than our personal selves, and maybe we can eliminate seventy percent of our potential breakdowns!

Travis Savage

Travis Savage was born in Provo, Utah but grew up in Orem and years later settled there with his wife, Jessica and their three children: Tre, Skyler and Landon. Travis has been working in BYU’s Auxiliary Custodial for almost two years and enjoys working with the missionaries and all of his student employees. He hopes to continue his education in Business Management in the near future. Travis’s favorite pastimes are working on cars or anything mechanical and enjoying all sports, especially basketball; his least favorite thing is public speaking. He is extremely patient and understanding and is considered by those who know him to be “wicked awesome.”
G.O.L.D. is Great

Ole M. Smith - AAVP
Physical Facilities

In early January of this year I decided to implement an idea I’d been kicking around for quite some time. The thought had often come to me that it would be a good thing to go out and work with all the Physical Facilities’ crews that service campus. It would give me, I reasoned, a chance to get to know my employees better as I worked alongside them, plus it would help me understand, in greater detail, the depth and breadth of what they do each day to keep campus running. The idea would be to “put me to work” side by side with the crews doing their assigned work that day. Although I have been involved in the construction, architecture, engineering, grounds, facilities, materials management, equipment, shops and maintenance world for over 38 years. I also know how much I don’t know... and I know who can show me. So I decided I would do four visits per week of one and-a-half to two hours per visit, and over the span of a year or so I would eventually get around to all the different areas within Physical Facilities. I called it our G.O.L.D. program.....”Give Ole a Live Demo” (of what you do each day). It’s been a quarter of a year now and it has been a great learning experience. I’ve learned little details about many of the trades and craftsman (and women) that are employed at BYU. So far I’ve been welding, rented vehicles from the motor pool, painted across campus, fixed washing machines and dishwashers, helped measure for new SteelCase furniture, exercised shut-off

Continued on page 4

Capitol Needs Analysis (CNA) began in 1980 at the request of Henry B. Eyring, then commissioner of the LDS Church Educational System (CES). Many individuals were involved in collecting the initial inventory: the Custodial Department collected data on the interior items (flooring, ceiling systems, lights, furnishings), the Air Conditioning, Electrical and Mechanical shops collected the utilities components and the Construction and Planning Departments supplied the building exteriors and campus infrastructure inventory. Data was collected to establish current replacement cost, estimated life cycle, and projected remaining life of each item. The valuable contribution and participation of these departments continues today. Currently, more than 100,000 line items are tracked in the database. Each year about 15,000 of those are inspected in the normal course of work by over two hundred inspector/tradesman/employees registered with CNA.

In 2001, Dan Gleason joined the CNA group. He is a Mechanical Engineer with extensive expertise in database design, programming, controls, telemetry, and metering. Up until that time, he was working as the University Utilities Analyst and a Utilities Engineer. As Dan joined the CNA Center, it was merged with Utilities Analysis to become the Capital Needs and Utilities Analysis Department (CNUA). Today the team includes: Steve Marshall, a thirty-three year veteran of CNA, trained in finance and accounting; Rob Davy, a Mechanical Engineer, with an advanced degree in Statistics and Project Management and extensive experience with programming for databases; and Doug Porray, the newest member of the team who came from Materials Management where he worked for almost thirty years. He is quickly becoming a valued member of CNUA team.

BYU also has a healthy inventory of metering hardware used to track and collect mountains of data on utilities of every kind. Much of the data collected is recorded in fifteen minute intervals 24/7/365. Standardized tables and graphs are meticulously updated daily and thousands of lines of code automate much of the work. Although the telemetry is mined to improve the efficiency of our buildings, much of it is also used for billing purposes. Each month hundreds of bills are received, checked, and entered into our records. Communication and coordination with a wide variety of utility providers occurs daily and customers and users on campus are regularly updated on their usage and history.

The inspection process is just one of many steps in managing the life cycle of the BYU inventory. Numerous reviews are conducted to refine funding requests, plan and coordinate projects, update inventory, and train those involved. This model and approach has become the envy of institutions all over the world. The CNA program continues to be a great blessing to BYU and The Church of Jesus Christ of Latter-day Saints.

Shop Highlight

CNA Department

In 2001, Dan Gleason joined the CNA group. He is a Mechanical Engineer with extensive expertise in database design, programming, controls, telemetry, and metering. Up until that time, he was working as the University Utilities Analyst and a Utilities Engineer. As Dan joined the CNA Center, it was merged with Utilities Analysis to become the Capital Needs and Utilities Analysis Department (CNUA). Today the team includes: Steve Marshall, a thirty-three year veteran of CNA, trained in finance and accounting; Rob Davy, a Mechanical Engineer, with an advanced degree in Statistics and Project Management and extensive experience with programming for databases; and Doug Porray, the newest member of the team who came from Materials Management where he worked for almost thirty years. He is quickly becoming a valued member of CNUA team.

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Ticket Required

Mark Your Calendar

PHYSICAL FACILITIES STUDENT APRECIATION LUNCHEON
Thursday, April 17
BYU Soccer Field
12:00 - 1:30 p.m.

Ticket Required
NEW EMPLOYEES

We extend a warm welcome to the following new employees who recently joined our Physical Facilities Team.

Vern O’Brien  Moving & Receiving  William Casagni  Landscape Specialty
Douglas Porray  CNA  Dwayne Cadina  Moving & Receiving
Daniel Madson  Warehouse  Ben Nielsen  Heating Plant

INTERNAL PROMOTIONS

David Shelley  Electric Shop
Shane Isom  Transportation Services
Brian Eastman  Site Development
Dan Christensen  Warehouse
George Engelhardt  Gardening Maintenance
Casey Miller  Site Development

CONGRATULATIONS TO OUR RECENT RETIREEs

Boyd Leemaster  Auxiliary Services
Edward Clapie  Heating Plant
Kent Flack  Motor Pool
Kathleen Brittain  Custodial

CONGRATULATIONS TO OUR SAERA RECIPIENTS

Barry Holman  Innovation
Tim Wilda  Respect for Sacred Resources
Dwayne Cadina  Respect for Sacred Resources

valves for our high temperature heating lines, posted financial records, worked in the warehouse, serviced the laundry facilities in housing, cleaned and set up banquet halls in the WSC, planted orchids, framed steel stud walls, helped fix custodial equipment, worked with LMS (On-line Learning Modules), serviced engines, worked on equipment and electrical systems, helped prep, sand and mix paint for autobody repairs, seeded petunias for spring planting at the Provo temple, worked with plumbing and sheet metal craftsmen, tried to understand computer programming, worked on the grounds crew at the temple, laid pavers, and more. I’ve met men and women who have worked for BYU for 30 to 40 years, who have 13 children—many of them adopted, who could have worked elsewhere for more but chose to stay where they feel they are making a difference, and who simply love to work with their hands to help make the world we all live and work in run more smoothly. I extend my personal thanks to all who have worked with me and all those who are planning to do so in the future. Your positive attitudes, dedication, service and talents are extraordinary.