



The Conduit

Volume 14, Issue 1
January & February 2017

NEWS & VIEWS OF
ELECTRICAL INSTALLATIONS, INC.

Annual Christmas Party Highlights



Number of hours worked
without a "Lost Time" Injury

321,098



EMPLOYEE SPOTLIGHT



Happy birthday! Happy birthday! Happy birthday! Happy birthday!

Happy birthday! Happy birthday! Happy birthday! Happy birthday!

- 1/10 Annette Chamberlain
- 1/13 Wayne Wickens
- 1/18 Cory Glines
- 1/18 Chris Brosious
- 2/1 Ben Fritz
- 2/4 Tom Therrien
- 2/19 Sandra Ringelstein
- 2/19 Bryan Payne
- 2/23 Mitchell Leary

Happy birthday! Happy birthday!

Welcome New Employees

Peter Conti—Peter is an apprentice electrician who is currently working with Neil Davis. Peter lives in Moultonborough with his family and describes himself as a “gear head” who enjoys working on cars and trucks in his spare time.

Steve Munson—Steve is a journeyman electrician who is currently working with Tom Brosious. Steve lives in Wilton and enjoys cross-country skiing, hiking and fishing.

IN THE SPIRIT OF THE SEASON

We are thankful for the success that EI has enjoyed in 2016 and for all of you who, as a team, enabled that success. Please know that your hard work and dedication has allowed us to continue our Christmas tradition of sharing our success with those less fortunate. In early December, EI donated over \$30,000 to 19 different outreach-centered charities including The Salvation Army, St. Vincent de Paul, Cash-N-Cans, Habitat for Humanity, Interlakes Community Caregivers, Twin Rivers Interfaith Food Pantry, Meals on Wheels, David’s House, New Horizons, NH Food Bank, Dana Farber/Jimmy Fund, UMCOR, Visiting Nurse Home Care & Hospice, Lakes Region VNA, Lakes Region Food Pantry, Child Advocacy Center, Pine Street Inn, Webster House, and the USO.

By contributing to EI’s success you have also touched the lives of many who are in need. Thank you all for enabling us to continue this wonderful tradition.

Anniversaries

- Tom Therrien 20 Years
- Mike Leary 18 Years
- Chris Brosious 5 Years

EI Getaway Update



As we start the new year with lots of snow, let’s turn our thoughts to the Caribbean! Clear your schedule, check your passports, and get ready for this great itinerary:

- Thursday, 4/6 - Depart Boston at 7:40AM
Arrive Miami 11:11 AM
Board the magnificent *Carnival Sensation*
- Friday, 4/7 - Key West
- Saturday, 4/8 - Cozumel
- Sunday, 4/9 - “Fun Day” at Sea
- Monday, 4/10 - Depart Miami at 12:54 PM
Arrive Boston 4:07 PM

We are very excited about our upcoming EI adventure and wanted to give everyone specific travel details for planning purposes. More travel and activity details to follow!

Our Newest Electrician

Congratulations to Sam Kelley-Vail on completing his electrician apprenticeship and earning his New Hampshire Journeyman Electrician license! We are proud that Sam’s entire apprenticeship has been within EI’s Apprenticeship Program, and we look forward to Sam assuming new responsibilities in the near future.

Welcome Baby Edward Roy Payne

Born on 11/13/16 at 7:10 PM. Edward weighed 8 lbs. 7oz and was 22” long. Wishing Bryan, Lindsay and Edward many joyful moments and memories.



NEWS & VIEWS OF
ELECTRICAL INSTALLATIONS, INC.

FEATURED PROJECT
Wastewater Treatment Facility Process Upgrade
Bucksport, ME

Bucksport is a picturesque Maine town located along US Route 1, on the Penobscot River. Operating a primary wastewater treatment plant, the Town needed to add secondary treatment in order to bring the facility into compliance with federal regulations. The current project will upgrade the existing plant to a secondary wastewater treatment process, bringing it into full compliance. This extensive upgrade includes renovation of the existing 4480 SF wastewater treatment building as well as construction of a headworks building, two aerated basins, two clarifiers, new chlorine/UV lighting disinfection chamber, new blower building, sludge digester, and standby generator.



Designed by Olver Associates, the nearly \$12 million project was awarded to Apex Construction who issued a large subcontract to EI for completion of all electrical and control work. This 2-year project has proven quite challenging due to its remote location and considerable manpower requirements. Nearly all of EI's electricians and apprentices have traveled to Bucksport, all contributing to timely project completion. Special thanks to Cory Glines, Project Manager, for keeping this long-term project on track and to all who literally went the extra mile to ensure that the ambitious project schedule was met. We look forward to timely project completion this spring.

Number of hours worked
without a "Lost Time" Injury

332,421



EMPLOYEE SPOTLIGHT



3/10 Eva Fritz
 4/30 Brian Chevrette



Matt Blood 13 Years
 Tom Brosious 13 Years
 Jared Leary 7 Years
 Zack Fritz 7 Years
 Andy Fritz 5 Years
 Ben Fritz 4 Years

WELCOME KENDALL JOSLYN LEARY

Born on 2/19, Kendall weighed 7 pounds and was 20" long. We wish Jared, Brooke and Kendall many wonderful moments and memories. Congratulations also go out to Grandpa Mike!



Welcome New Employee, Barry Goodrich. Barry is an electrical helper who is working with Wayne in Bellows Falls. He lives in Chester, VT with his wife Patti and has three grown daughters. During his free time, he enjoys hunting and trapping.

Don't forget to set your clocks ahead on Sunday March 12.



Carnival Sensation®

CRUISE NEWS!

Just in time for our 30th Anniversary Getaway Cruise, *Carnival Sensation* has completed a multi-million-dollar renovation. The 2,052-passenger ship has resumed its regular schedule sporting new food and beverage options such as "Blue Iguana Cantina & Tequila Bar", "Red Frog Rum Bar", "Alchemy Bar" and "Guy's Burger Joint". Perhaps they are preparing for our arrival?

We are excited to embark on our EI adventure and detailed itineraries will be forthcoming in the next few weeks. One detail yet to be finalized is timely arrival at Logan Airport for our 7:40AM departure to Miami. Thirty-three of us will be traveling together, some of which live a great distance from the airport. We will be holding a block of hotel rooms (park and ride) near the airport for the night prior to our departure. Please notify Eva or Michele in the office ASAP if you are interested in this option.

We can think of no better way to celebrate Electrical Installations' 30th anniversary than cruising the Caribbean with the EI crew. Special thanks to all who have contributed to our success over these many years!



Happy 4th of July!

The Conduit

Volume 14, Issue 3
May & June 2017

NEWS & VIEWS OF ELECTRICAL INSTALLATIONS, INC.



EII 30th ANNIVERSARY CRUISE



EII CRUISE 2017





EMPLOYEE SPOTLIGHT



Anniversaries

- Cory Glines 12 Years
- Rick Frame 11 Years
- Eva Fritz 11 Years
- Casey Damon 10 Years
- Michele Near 10 Years
- Mitchell Leary 3 Years

Factoid of the Month



In the United States, the top 5 most popular summer vacations are:
 beach/ocean (45%)
 a famous city (42%)
 national parks (21%)
 a lake (17%)
 a resort (14%)



Number of hours worked without a "Lost Time" Injury **342,679**

OSHA REGULATION FOR CRYSTALLINE SILICA

Crystalline silica is an important industrial material found abundantly in the earth's crust. Quartz, the most common form of silica, is a component of sand, stone, rock, concrete, brick, block, and mortar. Materials containing quartz are found in a wide variety of workplaces.

Silica dust is hazardous when very small (respirable) particles are inhaled. These respirable dust particles can penetrate deep into the lungs and cause disabling and sometimes fatal lung diseases, including silicosis and lung cancer, as well as kidney disease.

Occupational exposure to respirable crystalline silica occurs when cutting, sawing, drilling, and crushing of concrete, brick, ceramic tiles, rock, and stone products.

The following are specified exposure control methods when working with materials containing Crystalline Silica.

Core machine mounted:

~Use tool equipped with integrated water delivery system that supplies water to cutting surface, maintain and operate in accordance with manufacture's instructions

No Required Respiratory Protection

Handheld and stand mounted drills (including impact and rotary hammer drills)

~Use drill with commercially available shroud or cowl with dust collection system.

~Operate and maintain toll in accordance with manufacture's instruction to minimize dust emissions.

~Dust collector must provide the air flow recommended by the tool manufacturer or greater, and have a filter with 99% or greater efficiency and a filter cleaning mechanism.

~Use a HEPA filtered vacuum when cleaning holes.

No Required Respiratory Protection

New equipment will be supplied to meet these standards. Please contact Rick Frame for further information.

UPCOMING PROJECTS

Bethlehem, NH – Water System Improvements
Penta Corp.

Concord, NH – WWTF RDP & Ventilation Upgrade
Penta Corp.

Fitchburg, MA – WWTF Secondary Systems Upgrade
Waterline Industries, Inc.

Manchester, NH - Boiler Upgrade Project
Methuen Construction

Manchester, NH – Primary Clarifier & Gravity Upgrade
Methuen Construction

Norfolk, MA – WWTF Improvements
Robert B. Our Co. Inc.

Orange, MA – Well No. 2 & 3 Pump Station Upgrades
Dankris Builders Corp.

South Portland, ME – WWTF SCADA Upgrade
City of South Portland

Walpole, MA – Superfund Site
Weston Solutions, Inc.

JUNE 21, 2017

Happy First Day of Summer





The Conduit

Volume 14, Issue 4
July & August 2017

NEWS & VIEWS OF ELECTRICAL INSTALLATIONS, INC.

FEATURED PROJECT Wastewater Treatment Facility SCADA Upgrade South Portland, ME



This project is yet another example of Electrical Installations returning to a long-term customer in order to update technology. In 1994 EI replaced antiquated controls at South Portland's wastewater treatment plant and, at that time, installed state-of-the-art PLCs. After 23 years of trouble-free service, we returned once again to perform a major technology update. Electrical Installations was selected to provide UL-listed control panels and new instrumentation as part of this major upgrade. This 8-month project was challenging in that all work had to be completed without any plant down time. We are proud to report that this project was recently completed ahead of schedule and under budget. Many thanks to all who contributed to this extremely successful project including Project Manager, Jim Fritz, and Project Super, Tom Brosious. Special thanks to everyone else who helped make this project a great success, including Chris Brosious, Ben Fritz, Jim Fritz Jr., Bryan Payne and Neil Davis.





EMPLOYEE SPOTLIGHT



Jimmy Fritz	July 1
Craig Sharpe	July 9
Darlene Chevrette	July 9
Charlie Fritz	July 28
Andy Fritz	August 11
Zack Fritz	August 26

Anniversaries

Annette Chamberlain	1 year
Brian Chevrette	21 years
Darlene Chevrette	21 years
Neil Davis	21 years
Jimmy Fritz	7 years

WELCOME NEW EMPLOYEES

Tracey Clarenbach—Tracey has joined the office team in accounts receivable. She lives in Moultonborough with her husband, Jeff, and her children. Tracey enjoys boating and reading in her free time.

Christopher Roberts—Chris lives in Concord with his wife. In his free time he likes to hike and enjoys playing percussion in local musical theater. He is currently working with Craig in Newmarket.

Julia Meeks – Julia lives in Rochester and joins the EI crew as an experienced Journeyman Electrician. She is originally from Burlington, VT (802 Pride!) and she enjoys hiking with her 2 dogs and fishing. Julia is working with our crews in Manchester and Nashua.

Claude Rochette — Claude lives in Alton and enjoys being outdoors in his free time -gardening, hiking or spending time at the ocean. He is a Master Electrician and is currently working with Neil in Dover.

Number of hours worked
without a "Lost Time" Injury

353,972



Factoid of the Month

The "dog days of summer" refer to the weeks between July 3 and August 11 and are named after the Dog Star (Sirius) in the Canis Major constellation.

The ancient Greeks blamed Sirius for the hot temperatures, drought, discomfort, and sickness that occurred during the summer.



"Sirius... Hal The dog star!"

Charlie's Quality Corner

Tech Tips - Connections

99% of all power, control and instrumentation problems can be traced back to loose or improper connections. We sometimes see critical processes interrupted by poorly made connections. Some considerations are:

The preferred method for terminating power cables is to use compression connectors. Always use a crimper listed for use with the connector and apply the properly rated cable to connector. Check the temperature rise of the connector to match or exceed the rating of the equipment.

Be sure to strip enough insulation off control and instrumentation cable. Torque terminal strips to manufacturer's spec's.

Avoid "bird caging" when terminating finely stranded control wires.

Be sure to insulate splices and connections with listed insulating materials which meet or exceed the conductor insulation and temperature ratings.

Allow for insulating over sharp edges and for vibration.

When connecting instrumentation and control wiring to terminal blocks, strip conductors to the proper length to avoid tightening on to the conductor, not the insulation.



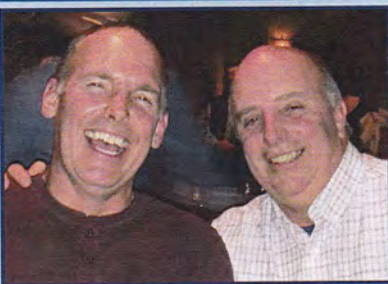
The Conduit

Volume 14, Issue 5
September & October 2017

NEWS & VIEWS OF ELECTRICAL INSTALLATIONS, INC.

1987 - Thirty Years - 2017

It is hard to believe that October 5, 2017 will mark Electrical Installations' 30th anniversary. We have evolved from a fledgling industrial electrical contractor to a dominant force in the instrumentation and controls market for the water and wastewater treatment industry. The journey hasn't always been easy but we are blessed to have so many dedicated employees who have ensured our success along the way. We are grateful for your commitment and your friendship and we look forward to even greater successes in the future.





EMPLOYEE SPOTLIGHT



Chuck Fritz	September 9
Casey Damon	September 14
Matt Blood	September 15
Jim Fritz	September 17
Jared Leary	September 20
Barry Goodrich	October 14
Stephen Munson	October 16
Michele Near	October 17
Darlene Fritz	October 28

Anniversaries

Charlie Fritz	30 years
Darlene Fritz	30 years
Jim Fritz	30 years
Chuck Fritz	30 years
Bryan Payne	11 years
Kim Souza	9 years
Stephen Munson	1 year

WELCOME NEW EMPLOYEES

Luke McCarthy — Luke is working with Bryan Payne in Nashua as an apprentice electrician. He lives in Nashua and enjoys hiking, kayaking, snowboarding and camping in his free time.

Andrew Torressen —Andrew is an apprentice electrician and is currently working with Neil Davis. He lives in Moultonborough with his family. He recently graduated from Norwich University and is a 2nd Lieurenant in the Army National Guard and also recently became engaged.

Shane Pouliot— Shane lives in Moultonborough with his wife Ashley and his sons Mason and Thomas (Thomas was born August 30!) Shane will be working as an instrumentation technician and is currently assisting Charlie Fritz.



Factoid of the Month

In 1894, nearly 4,000 factory employees of the Pullman railway company started a strike in response to reduced wages. Boycotts, riots, and sabotage ensued; 30 people were killed across the country, and an estimated \$80 million in damages was incurred. President Grover Cleveland eventually called in the Army to bust up the strikers; six days later, he rushed legislation through Congress to declare Labor Day a national holiday as a conciliation.



Number of hours worked without a "Lost Time" Injury



365,437

Charlie's Quality Corner

No Work on Live Circuits

It is Company policy to not work on live circuits at any time. In the extremely unlikely event that hot work must be performed, proper PPE must be utilized. Observe all arc flash calorie information and boundary requirements when selecting PPE. We want to stress, however, that panel boards and the like can almost always be de-energized if proper planning and communication methods are employed. Plan ahead for safety!

Some 25 million students nationwide begin and end their day with a trip on a school bus. National School Bus Safety Week is October 16-20, 2017.



It's not JUST a stop sign, it's a child's life.



FEATURED PROJECT

Water Pollution Control Facility Comprehensive Upgrade Farmington, CT



As a subcontractor to C.H. Nickerson, Electrical Installations, Inc. was awarded a subcontract to provide instrumentation and controls for the Water Pollution Control Facility Upgrade project for the Town of Farmington, CT. This ambitious project includes construction of new buildings and structures as well as renovating existing buildings and structures. This is a three-year project which will completely revamp the entire WPCF.

To date, we have supplied all of the instrumentation and we have completed the first phase of panel fabrication, supply of five PLC control panels. We recently completed the factory testing of these panels at EI's panel shop in Moultonboro, NH. Matt Blood and Casey Damon fabricated the panels and assisted with extensive testing of the panels which was witnessed by the Town of Farmington's WPCF staff, Peter Evans of SED Associates (the Design Engineer), and a representative from C.H. Nickerson, the general contractor. The panels will now be installed and will be ready for the first phase of commissioning at the end of this year.

Matt and Casey are now busy completing the remaining six PLC panels as well as many local control panels for this project. Jared Leary is busy building graphics for the project as Mike Leary continues with the project management and integration of all the PLCs and SCADA computer equipment which will allow the operators full control of almost all of the treatment process as well as some of the HVAC equipment.

We are most appreciative of the hard work and attention to detail that have resulted in achieving project milestones on schedule and without issue.






EMPLOYEE SPOTLIGHT



HAPPY BIRTHDAY



11/2	Mike Leary
11/9	Neil Davis
11/14	Tom Brosious
12/20	Kim Souza

Anniversaries

Craig Sharpe 8 Years



EI CHRISTMAS PARTY

Saturday, December 9, 2017

6:00 PM—9:00 PM

Lemon Grass

64 Whittier Highway
(Route 25)

Moultonborough, NH

RSVP 603-253-4525




National Apprenticeship Week 2017
November 13 – 19, 2017

National Apprenticeship Week (NAW) is a National Celebration that offers leaders in business, labor, education, and other critical partners a chance to express their support for Apprenticeship. NAW also gives apprenticeship sponsors the opportunity to showcase their programs, facilities and apprentices in their community. The weekly events highlight the benefits of Apprenticeship in preparing a highly-skilled workforce to meet the talent needs of employers across diverse industries.

*“Tell me and I forget,
teach me and I remember,
involve me and I learn.”*

Benjamin Franklin



Factoid of the Month

Sarah Josepha Hale, born in Newport, NH in 1788, was the author of “Mary Had a Little Lamb” and the “Mother of Thanksgiving.” Hale famously campaigned for the creation of the American holiday of Thanksgiving for over 20 years and finally was able to convince President Lincoln who proclaimed the first Thanksgiving on November 26, 1863.



DON'T FORGET TO
FALL BACK

**CLOCKS GO
BACK ON
NOVEMBER
5TH**

Number of hours worked
without a "Lost Time" Injury **375,949**

Happy Thanksgiving!