

The Conduit

Volume 13, Issue 1
January & February 2016

NEWS & VIEWS OF ELECTRICAL INSTALLATIONS, INC.



EI CHRISTMAS PARTY 2015





2016

HAPPY NEW YEAR

EMPLOYEE SPOTLIGHT



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

Anniversaries

Tom Therrien 19 Years
 Mike Leary 17 Years
 Chris Brosious 4 Years

In 2015, Electrical Installations' vehicles traveled 345,541 miles, enough to travel around the earth nearly 14 times!

WELCOME NEW EMPLOYEE

Kyle Palevicius is our newest electrician apprentice and is currently working with Craig Sharpe at our Newmarket project. Kyle lives in Nashua with his family and enjoys playing hockey and baseball in his free time.

Charlie's Quality Corner

Fiber Optic Topics

We are using fiber optics for networking and control to an unprecedented level now, and the future will see an even greater migration to, and reliance on, this technology.

I want to stress the dangers of a cavalier attitude when using the hardware. The fiber strands are very fragile, and the connector ends are easily damaged. It is critical to keep the dust covers on the jumpers and bulkheads when not in use. Recently our OTDR tester had difficulties, and we found many micro fractures in the connector faces only visible with a high-power microscope. Apparently, this happens frequently if the cable is handled roughly or if the protective end caps are not in place. Dust and fine dirt are the enemies of fiber optic communication.



IN THE SPIRIT OF THE SEASON

Thank you to all who contributed to EI's success this past year. We are thankful for every member of our dedicated team and want you to know that you enabled us to, once again, share our success with those less fortunate. As Christmas approached, EI donated nearly \$25,000 to 18 different outreach-centered charities including The Salvation Army, St. Vincent de Paul, Cash-N-Cans, Habitat for Humanity, 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 Food Pantry, Child Advocacy Center, Pine Street Inn, and others. Please know that you who enable our success have also touched the lives of many who are in need.



Number of hours worked without a "Lost Time" Injury **259,737**

Factoid of the Month

WHY DO WE HAVE LEAP YEAR?

It takes the Earth around 365.242199 days to go around the sun, but the modern Gregorian calendar only has 365 days. Without some type of periodic adjustment, the calendar would be out of "synch" with the seasons by approximately one month every 125 years. So once every four years, all of the extra time is added together to form a new day, February 29. Even this adjustment over-compensates by about 11 minutes.



The Conduit

Volume 13, Issue 2
March & April 2016

NEWS & VIEWS OF ELECTRICAL INSTALLATIONS, INC.

FEATURED PROJECT

CONTROL PANEL AND INSTRUMENTATION FOR ROTARY SCREW PRESS MIDDLEBOROUGH, MA WASTEWATER TREATMENT PLANT

For this project, Electrical Installations, Inc. is supplying rotary screw press controls to the equipment manufacturer, FKC Co., Ltd. of Port Angeles, WA. We are supplying a complex control panel that will control two presses and ancillary equipment. We have built and programmed similar control panels in the past for Merrimack and Berlin, NH.

The rotary screw press is taking the place of belt filter presses in many treatment plants. The press is more efficient in removal of water from sludge and uses significantly less energy. The controls we are supplying are state-of-the-art redundant, hot backup, programmable controllers. The control panel,



including instrumentation, is valued at nearly \$130,000.00. Many thanks to Matt Blood, Casey Damon, Brian Chevrette, and Darlene Chevrette for their good work on this and other similar systems.

Under a sizable subcontract from long-time customer, Methuen Construction, EI is also providing instrumentation for the overall upgrade at the Middleborough Wastewater Treatment Plant. Stay tuned for more updates from Mike Leary who is

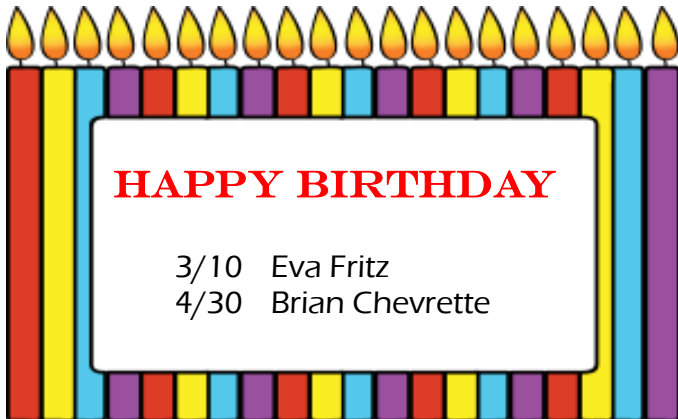


Number of hours worked
without a "Lost Time" Injury **270,272**





EMPLOYEE SPOTLIGHT



HAPPY BIRTHDAY

3/10 Eva Fritz
4/30 Brian Chevrette

UPCOMING PROJECTS

Derry, NH Pump Station
Pennichuck Water Works

Falmouth, ME Pump Station
Apex Construction

Farmington, CT WWTP Upgrade
CH Nickerson

Lewiston, ME PLC Upgrades
Lewiston-Auburn WPCA

Ogunquit, ME Pump Station Upgrade
Apex Construction

Ware, MA Hatchery Upgrade
Waterline Industries Corporation

Milford, CT SCADA Computers
City of Milford, CT

Anniversaries



Matt Blood, 12 Years
Tom Brosious 12 Years
Jared Leary 6 Years
Zack Fritz 6 Years

ANNUAL EMPLOYEE MEETING

Friday, April 22, 2016
Ridgewood Country Club
Moultonboro, NH



Charlie's Quality Corner

Connections

99.99% 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 specifications.
- 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.

Factoid of the Month



Easter always falls between March 22 and April 25—it is always celebrated on the first Sunday after the full moon, which happens on or about March 21, the Spring Equinox.



DON'T FORGET TO SET YOUR CLOCK AHEAD ON SUNDAY, MARCH 13th!

The Conduit

Volume 13, Issue 3

May & June 2016

NEWS & VIEWS OF ELECTRICAL INSTALLATIONS, INC.

ELECTRICAL INSTALLATIONS' ANNUAL TEAM MEETING 2016

On April 22, Electrical Installations' employees gathered at Ridgewood Country Club for EI's annual Team Meeting. Our gathering began with introduction of our newest team member, Kyle Palevicius, an apprentice electrician from Nashua, NH. Our busy schedule began with our #1 priority, safety, as Safety Director, Rick Frame, congratulated the entire EI team for maintaining a perfect safety record throughout 2015. Rick also announced the 2016 Joint Loss Management Committee members and presented OSHA updates and most common OSHA violations. The balance of our morning was devoted to extensive Variable Frequency Drive (VFD) training presented by representatives of Rockwell Automation/Allen-Bradley.

Cheryl Adams of Citizens Bank presented important financial wellness information regarding two topics that are currently of concern for everyone: "Preventing an ID Theft Crisis" and "Improving your Credit Score". These seminars provided valuable information and useful tips from which we can all benefit. We also learned about the many supplemental insurance plans available to all EI employees as Aflac representative Peter Griffey provided a brief overview of Aflac's many offerings.

Our annual "State of the Company" presentation described a financially strong company with a solid future and an enviable safety record. Though there are always challenges ahead, we were pleased to report that we met every challenge identified during last year's Annual Meeting. It was noted that we do not miss an opportunity to bid any viable project which inevitably leads to unpredictable geography. With our backlog presently at record levels, we are all challenged to maintain the momentum that EI currently enjoys.

In recognition of the importance of keeping the lines of communication open, a "Town Hall" event ensued allowing everyone the opportunity to ask questions and/or voice concerns. This event was a huge success covering a myriad of topics and providing clarity regarding a number of issues.

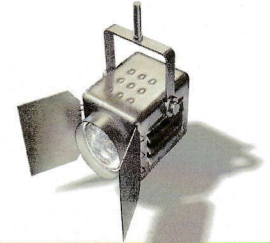
We never lose sight of the fact that our greatest strength as a company is the incredible team that we have assembled over the course of nearly three decades. The highlight of each annual meeting is acknowledgement of those employees achieving service milestones in the current year. We were very proud to honor three team members marking 10 years of dedicated service - Eva Fritz, Bryan Payne and Rick Frame. For the first time in company history, we were delighted to celebrate three team members marking 20 years of dedicated service - Neil Davis, Brian Chevrette and Darlene Chevrette. We could not be more appreciative of the contributions that these individuals have made to EI's success!

Our meeting closed with recognition that the company itself will mark an extraordinary milestone in the coming year. All in attendance were invited to join us next April on a Caribbean cruise as we celebrate Electrical Installations' 30th Anniversary. Thank you all for helping us achieve this remarkable milestone!





EMPLOYEE SPOTLIGHT



Anniversaries

Cory Glines	11 Years
Rick Frame	10 Years
Eva Fritz	10 Years
Casey Damon	9 Years
Michele Near	9 Years
Sam Kelley-Vail	4 Years
Ben Fritz	3 Years

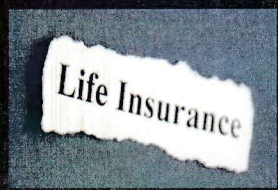


CONGRATULATIONS ON 20 YEARS OF DEDICATED SERVICE!




NEIL DAVIS BRIAN & DARLENE CHEVRETTE

CELEBRATING 20 YEARS!

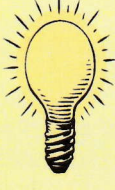


El provides \$25,000 Life and Accidental Death and Dismemberment Insurance coverage to all full-time employees. Have you designated your beneficiary or is it time to update that designation? If so, contact the office for a Sun Life Beneficiary Designation form.




We are pleased to announce the 2016 Joint Loss Management Committee employee members as elected by employee ballot. Matt Blood and Neil Davis will serve as employee representatives with Ben Fritz serving as alternate member. Employer representatives are Jim Fritz and Safety Director, Rick Frame. Thank you all for your support of EI's safety initiatives!

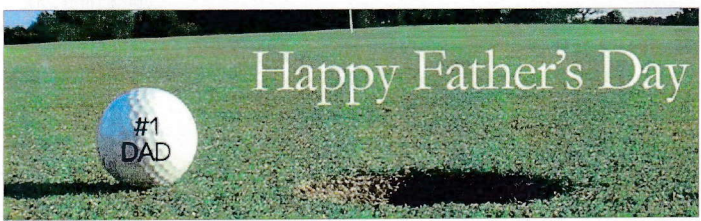
Factoid of the Month



June is National Safety Month. The National Safety Council saves lives by preventing injuries and deaths at work, in homes and communities, and on the roads through leadership, research, education and advocacy.



279,805 Number of hours worked without a "Lost Time" Injury



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July & August 2016

NEWS & VIEWS OF ELECTRICAL INSTALLATIONS, INC.



Electrical Installations' 30th Anniversary Celebration in the Caribbean!

All aboard for EI's biggest celebration yet! As announced at our Annual Employee Meeting, all current employees and their guests are invited to join us on the *Carnival Sensation* as we cruise the Western Caribbean. Departing from Miami on April 6, we cruise to Key West, Cozumel, and enjoy a "Fun Day" at sea before returning to Miami for our flight home on April 10. April is well ahead of hurricane season, and we look forward to clear sailing.

What a wonderful way to celebrate 30 amazing years, and we are thrilled to include the entire EI team in the festivities!

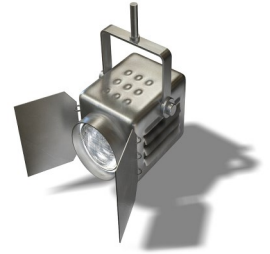
FIFTH ANNUAL TDK GOLF CLASSIC

On June 24th, 124 golfers enjoyed perfect weather and course conditions during the annual TDK Golf Classic at Ridgewood Country Club. The efforts and generosity of vendors, contractors and community members resulted in over \$15,000 raised in support of Todd Keyser's children and the Payson Cancer Center at Concord Hospital. To date, the TDK Golf Classic has raised over \$117,000 in support of these deserving causes. Congratulations to 4-time tournament champions Cory Glines, Matt Blood, Jimmy Fritz and Andy Fritz!





EMPLOYEE SPOTLIGHT



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

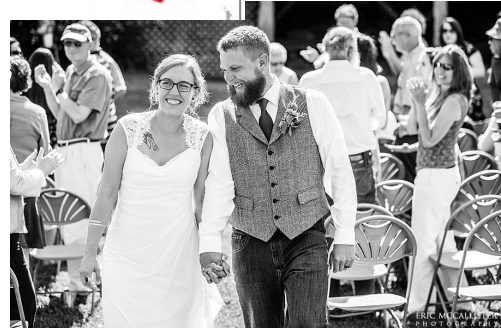
Anniversaries

Brian Chevrette	20 Years
Darlene Chevrette	20 Years
Neil Davis	20 Years
Jimmy Fritz	6 Years

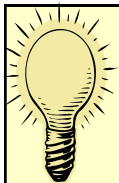
just married!!!



Chrissy and Matt Blood were married at Geneva Point Center in Moultonborough on June 11. They are living in Moultonboro and are planning a honeymoon trip to Disney World. Congratulations Chrissy & Matt!



Lindsey and Sam were married on June 16 at Sam's parents' home in Sanbornton. After a trip to St. Lucia, they are living in Manchester. Congratulations Lindsey and Sam!



Factoid of the Month

In 1984, President Ronald Regan designated the third Sunday in July as National Ice Cream Day. July is National Ice Cream Month. Americans are the No. 1 consumers of ice cream worldwide, eating 48 pints per person every year on average.



290,291 Number of hours worked without a "Lost Time" Injury

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Volume 13, Issue 5
September & October 2016

NEWS & VIEWS OF ELECTRICAL INSTALLATIONS, INC.

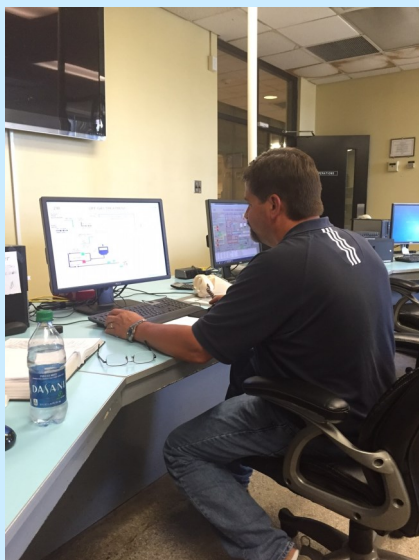
Wastewater Treatment Facility Aeration System Upgrade Manchester, NH



Previously, the Manchester Wastewater Treatment Facility treated up to 30 million gallons of wastewater per day serving Manchester, Bedford, and other surrounding towns. The upgrade project increased treatment to up to 60 million gallons per day! Since 1990, Electrical Installations, Inc. has designed



and installed upgrades to this facility's influent pumping, clarifiers and thickeners, chemical treatment, and now the aeration system. As part of this project, we modernized and upgraded the complete SCADA system and installed new state-of-the-art controls throughout the facility. Working closely with the general contractor, client and engineer, we achieved seamless startup and operations.



HAPPY 29TH ANNIVERSARY EII



HAPPY BIRTHDAY

9/9	Chuck Fritz
9/14	Casey Damon
9/15	Matt Blood
9/17	Jim Fritz
9/20	Jared Leary
10/10	Rick Frame
10/17	Michele Near
10/28	Darlene Fritz

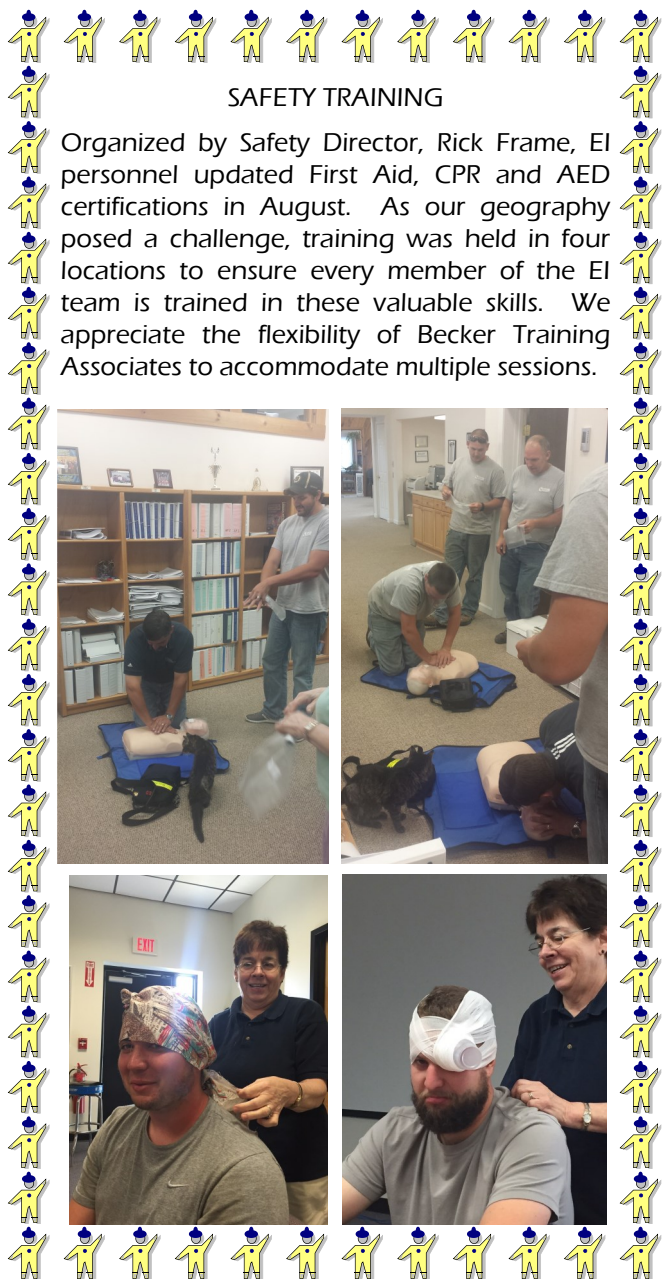
Anniversaries

Jim Fritz	29 Years
Chuck Fritz	29 Years
Charlie Fritz	29 Years
Darlene Fritz	29 Years
Bryan Payne	10 Years
Kim Souza	8 Years
Mitchell Leary	3 Years

WELCOME NEW EMPLOYEE - Annette Chamberlain, our newest employee, joins us as our Assistant Controller. Annette lives in East Wakefield with her better half, Hal, and enjoys spending time with her family and quilting. She is busy learning all there is to know about Electrical Installations and is overhauling the company website.

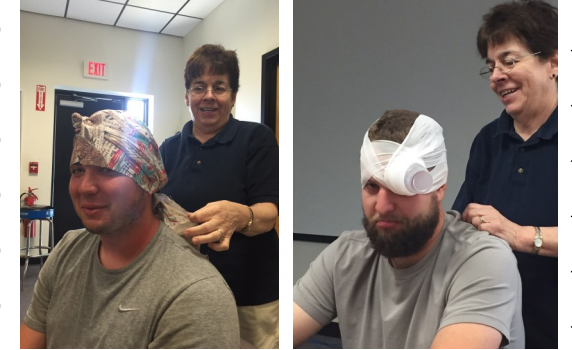
UPCOMING PROJECTS

- Clinton, MA - WWTF Phosphorus Reduction Facility
Daniel O'Connell's Sons
- Dover, NH - Water Facilities Improvements Phase I
Penta Corporation
- Framingham, MA - SCADA Backbone & Water Pump Stations
Fall River Electrical Associates
- Gardner, MA - WWTF Headworks Upgrade
Winston Builders
- Ludlowe, MA - Skyridge Booster Pump Station
Ricciardi Bros.
- No. Andover, MA - Water System SCADA Upgrade
Fall River Electrical Associates



SAFETY TRAINING

Organized by Safety Director, Rick Frame, EI personnel updated First Aid, CPR and AED certifications in August. As our geography posed a challenge, training was held in four locations to ensure every member of the EI team is trained in these valuable skills. We appreciate the flexibility of Becker Training Associates to accommodate multiple sessions.



Factoid of the Month

Every school day, some 450,000 school buses transport more than 24 million children to and from schools and school-related activities, making school buses the largest mass transit program in the US.

FLASHING RED

KIDS AHEAD

Number of hours worked without a "Lost Time" Injury **301,070**



The Conduit

Volume 13, Issue 6
November & December 2016

NEWS & VIEWS OF ELECTRICAL INSTALLATIONS, INC.

PIERCE ISLAND WASTEWATER TREATMENT PLANT UPGRADE



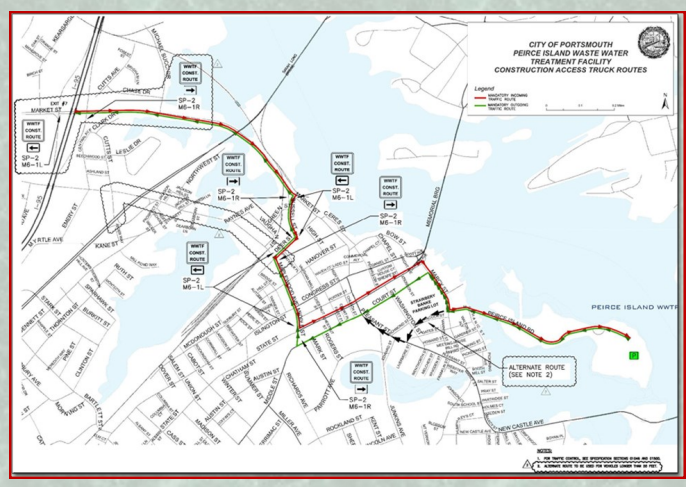
After many years of planning, design and an extensive public process, the largest capital improvement project in the history of the City of Portsmouth, the *Pierce Island WWTP Upgrade*, is underway! This four-year project, which could reach \$100M by completion, was awarded to Methuen Construction in late August, and EII is excited to undertake the system integration and Instrumentation / Process Control portion of this project.

The upgrade, required by a legal order from the Environmental Protection Agency (EPA), will expand the treatment of wastewater to include a secondary process which will remove organics and nitrogen from the effluent discharged into the Piscataqua River / Atlantic Ocean. We are providing a best available control technology, proven control system. The system is incorporating many 21st century innovations and should be the most advanced in the Northeast.

In an effort to keep residents, businesses and visitors informed as to project status and impact, the City has created a website devoted to providing news and updates regarding construction schedules, traffic and other information, including the accessibility of recreational areas, such as the State Fish Pier, Public Boat Launch (seasonal), Four Tree Island Parking Lot, Off-Leash Dog Area (currently closed) and PI Outdoor Pool (seasonal).

<http://www.portsmouthwastewater.com/piupgrade.html>

Look for future updates on this impressive and challenging project!



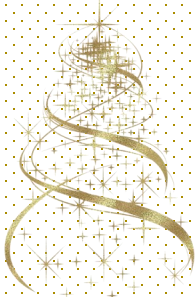


EMPLOYEE SPOTLIGHT



HAPPY Birthday!

11/2	Mike Leary
11/9	Neil Davis
11/12	Kyle Palevicius
11/14	Tom Brosious
11/26	Sam Kelley-Vail
12/20	Kim Souza



Anniversaries

Sandra Ringelstein	18 Years
Craig Sharpe	7 Years
Kyle Palevicius	1 Year



EI CHRISTMAS PARTY
 Saturday, December 10, 2016
 6:00 PM—9:00 PM
 Lemon Grass
 64 Whittier Highway
 (Route 25)
 Moultonborough, NH
 RSVP 603-253-4525




PASSPORTS FOR EI CRUISE




With our upcoming Anniversary cruise in April, please be aware that your passport must remain current for 6 months after our cruise departure. Please be sure to update as necessary. Most US Post Office locations (including Laconia and Concord) process passport applications, and many also have photo capabilities. Call locations for times.

Factoid



The poinsettia is native to Mexico and was cultivated by the Aztecs, who called the plant *Cuetlaxochitl* (“flower which wilts”). For the Aztecs, the plant’s brilliant red color symbolized purity, and they often used it medicinally to reduce fever. Contrary to popular belief, the poinsettia is not poisonous, but holly berries are.



NOVEMBER 6, 2016



Number of hours worked without a "Lost Time" Injury 311,744