



August 2018 Newsletter

Welcome to the August issue of the AFE Chapter 140 newsletter, which includes: greetings from our President Steve Bellemore; member meeting details; the board meeting schedule; information on our certification programs; a technical paper and sponsor listing.

We need your feedback. What would you like to see included in the newsletter? We have a wide variety of technical white papers available. If you have a certain topic you would like covered, please let us know. Please forward comments to either Steve Bellemore at steven.r.bellemore@baesystems.com, or Ed Gagnon at edgagnon78@gmail.com

AFE Mission Statement

The Association for Facilities Engineering (AFE) is a professional membership organization serving all professionals working in the built environment. We bring together professionals who ensure the optimal operation of high-rise commercial real estate, industrial plants, campuses of higher education, medical centers and (classified / non-classified) government facilities around the world. Established in 1915, AFE remains the leading technical education and credentialing resource for facilities management professionals. Each day we work to advance our mission to provide tools and resources to enhance the expertise and broaden the connections of facility management professionals worldwide.

Just as in social science, for AFE the term built environment refers to the surroundings people construct to provide settings for human activity and interaction, ranging in scale from buildings to parks and can often include their supporting infrastructure such as water supply and energy networks.

President's Message

First, I would personally like to invite all members and guest members to join us for our exciting 2018 tours! I am excited to see what great tour this year will bring. It's always a great time socializing and networking with a wonderful group of professionals the ones in AFE chapter 140! We had several outstanding tours and we are very much looking forward to another successful year in 2018.

Association for Facilities Engineering is all about networking and learning as a group of professionals. I've always said "You get out what you put in" and I encourage all of you to attend as many of our monthly

meetings as possible and to give your Board of Directors feedback about what you want to see in future tours and meetings. I ask you to please encourage the younger workforce and get them involved in the Chapter events! Please help -- even if it's just forwarding on our monthly newsletter so that they see what fun we are having.

We need more youth to help take on some roles and responsibilities going forward. Facilities professionals are retiring everyday with not enough qualified people to back fill the spots. Thank you to everyone who supported and contributed to AFE Chapter 140 in 2017! Please see our website for a list of supporting companies. We are always looking for volunteers to become involved in the board and help plan events and tours. If you are interested, please let one of the Board Members know at the next meeting.

I look forward to seeing all of you at our next meeting!

Steve Bellemore, CPMM
AFE Chapter 140 President
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Upcoming Meeting

IT'S BASEBALL!! Our next meeting will be a game between the New Hampshire Fisher Cats versus the Portland Seadogs -- a two-game event night.

Wednesday, August 22, 2018

First game starts at 5:35 PM. People can show up about one hour before the game. Both games are seven inning games. We have pavilion seating with a buffet. Cost: \$20 per person, dinner is provided.

[Click here for details and registration](#) or visit our website at www.afechapter140.org.

Past Tours/ Meetings

Our June tour was at the new 1,000,000 square foot F. W. Webb Central Distribution Center. This was a very impressive state of the art building in Londonderry.

Our May tour was at the new EFI manufacturing facility in Londonderry. This was a very impressive facility and company with an impressive product line.

Upcoming Chapter 140 Events

AFE Chapter 140 Board Meetings

All chapter 140 members are welcome to attend any board meeting. Meetings are held at the new Electronics for Imaging facility at 12 Innovation Way in Londonderry, just off Pettengill Road near the airport. Meetings start at 5:30 PM. Board meeting dates as follows:

9-5-18

10-3-18

11-7-18

12-5-18

AFE 140 Member Meetings Schedule

Typically, member meetings are held on the 4th Wednesday of every month.

- August 22, 2018 – Member night at the Fisher Cats – 5:35 PM. Two game night against the Portland Seadogs.
- September 26, 2018 - Tour of the Micro Electronics Center at BAE Systems in Nashua
- October 24, 2018 – Tour of Southern NH Hospital in Nashua
- November/December, 2018 – Member social date TBD
- January 23, 2019 – Tour of Pat’s Peak ski mountain operations in Henniker

If you have ideas for places of interest, or wish to host a tour of your facility, please contact any of the board members for chapter 140.

Supported Events: Local ASHRAE Chapter Golf Tournament

Granite State ASHRAE Golf Tournament -- September 20, 2018

Just a quick note that we will be hosting our annual Granite State ASHRAE Golf Tournament on Thursday, September 20 at the Candia Woods Golf Links located at 313 South Road in Candia.

As you may be aware, the Annual Golf Tournament is a major fundraiser for the local ASHRAE chapter and we would appreciate your support. There will be corporate sponsorship opportunities, team sponsorships, as well as individual sponsorship opportunities, even if you choose not to play. Please take a moment to make a note of the day and time, and plan to participate in this year’s event. It's a great opportunity to support your local ASHRAE chapter while having some fun with your colleagues and friends. Proceeds from this event support the ASHRAE Research Promotion efforts as well as the ASHRAE Scholarship Program.

Stay tuned for more information and "Save the Date" of Thursday, September 20 for a day of fun with us at the Candia Woods Golf Links.

Our Sponsors



Companies wishing to place an ad in our newsletters good for 1 year for a price of \$200, or by sponsoring a chapter meeting. Contact any board member for details on where to send a check and your company logo in jpg format.

Region 8 Events

Certification Programs

The next Certified Professional Maintenance Manager's (CPMM) Certification Review and Exam will take place in Waltham, MA on November 7-8-9, 2018 (Wednesday, Thursday and Friday). Cost: \$1395.00 for non-members; \$995.00 for AFE members. [Learn more.](#)

The CPMM Certification Review and Exam can also come to you – at your place of work. A minimum number of six participants is required for an in-house program. This saves your company the cost of travel for their employees, as well as travel time. Contact CPMM instructor Ed Gagnon at edgagnon78@gmail.com for more information.

The Certified Professional Supervisor's (CPS) Certification Review and Exam is coming to Region 8 in 2018. We are excited to be able to add this program to our portfolio of offerings in New England. The CPS program is good for both new and experienced supervisors. Many supervisors are promoted or hired into their positions with little guidance or understanding on their role and more importantly the legal side of job they have just undertaken. The CPS program can address that.

We will begin promoting this class through Region 8 and are looking at offering it twice a year in New England. We are also offering it to individual local companies to host in-house, saving your company the expense of hotel lodging and other travel expenses associated with sending people to our Waltham, MA sessions. If you are interested in more information, please contact Ed Gagnon at edgagnon78@gmail.com.

Next Region 8 Board Meeting Set for September

The next AFE Region 8 Board Meeting is tentatively scheduled for September 10, 2018 at the Westford Regency Conference Center at 219 Littleton Road, Westford, MA. The meeting will run from 4:30 to 7:00 PM. All AFE members are welcome to attend these board meetings. Interested members are asked to send an email to Alan Ouellette, Region 8 VP, at aouellet@filtersales.com, or to Ed Gagnon for headcount purposes.

Other Region 8 News

AFE Region 8 is also getting requests to present topics of the CPMM program to facilities personnel in private companies and public institutions. We are limiting the presentations to only one or two topics. The presentations do NOT count towards a CPMM certification, but CEU's will be given for the presentation time. Each topic will encompass about one hour of presentation time.

An example of this new service is work we are doing with a public institution to go over the Safety and Documents sections of the CPMM program with emphasis on the legal liabilities for facilities professionals in safety response and compliance documentation. Presentations are done by AFE authorized CPMM instructor Ed Gagnon. Contact Ed Gagnon at edgagnon78@gmail.com if you are interested in more information.

Technical Paper

Plastics and Recycling

By Ed Gagnon

As many of you know, plastic recycling has become a major issue over the last couple of years, with major impacts hitting the world in 2018. In 2017, China imported 8 million tons of plastic waste for recycling from the US, EU and other developed nations. Due to problems with waste quality with contaminants such as food waste, incorrect plastic in the bales, and other contaminants such as paper and metal mixed in with the plastic, in addition to the Chinese recycling system being over loaded with their own plastic waste stream, the Chinese stopped importing foreign plastic waste.

Not only did China stop importing scrap plastic, they also stopped importing scrap paper. Countries around the world were put on notice by the Chinese as far back as 2013 to clean up their recycling waste streams as the Chinese beefed up their inspections and began rejecting shipments of contaminated recycled waste material. With the Chinese market closed, imports of recycled plastics and paper began to rise in other southeast Asia countries such as Vietnam, Indonesia, Malaysia and Thailand. These other countries are ill equipped to handle even their own waste, let alone waste from other countries. These countries do not come close to being able to handle the volume of recycled material that China handled

only a year ago. Authorities in these countries have increased inspections of material arriving in their ports and have increased permitting paperwork for companies to get a license to process recycled material to slow down the rate of material coming in. The result has been a global collapse in the market value of scrap plastic and paper, with values in the negative dollars.

For plastic with a resin code of 3 thru 7 (that little number inside the triangle of arrows on your plastic container) there is no market and no one will take it. Those 3 thru 7 plastics are difficult and costly to recycle and it is cheaper for plastic manufacturers to make plastic from virgin material, than from processing recycled plastic. Even the plastics 1 and 2, which include water, soda and milk bottles can only be recycled as jacket fleece, plastic toys and plastic lumber. Once the plastic is re-manufactured into a new product, it cannot be recycled again. Even though there is a market for #1 and 2 plastics, there is a difference in ingredients between blow molded and injected molded plastics which means that a #1 injection molded plastic cannot be mixed with a #1 blow molded plastic. This requires a lot of manual sorting of the plastics waste streams.

We all have been hearing a lot about banning plastic straws and preventing them from killing sea life. While it is a start in the process to get rid of plastics, it makes virtually no impact in plastic pollution. The 500,000,000 straws used every day in the U.S. is a number made up by a 9-year-old boy who was writing a report for his elementary school class.

The media has run with that number ever since, even though that number has been debunked several times, with numbers being given as low as 172,000,000 million used a day. Starbucks is working to eliminate straws over the next few years and go with a different cup cover that does not need a straw. People believe that Starbucks is reducing plastic usage, but reviews have been done on the straw less covers used by Starbucks in Europe and compared to the present covers and straws used in the US and there is no discernable in the weight of plastic being used between the two styles. Coca Cola is advertising that by 2020 they will be making their plastic bottles out of 50% recycled plastic. While a good start, keep in mind that Coca Cola sells over 100 billion plastic beverage bottles year. Coca Cola will still be using over 1.6 million tons of virgin plastic a year.

The attention given to straws detracts from the bigger issue, which is that there is an estimated 150 million tons of plastic in the oceans with an additional nine million tons a year being washed into the oceans, killing millions of sea birds and marine animals. Out of the nine million tons of plastic entering the oceans each year, about 8.4 million tons of it comes from 15 rivers. Seven of the rivers are in China, six more are rivers in other Asian nations and then two rivers in Nigeria.

All that plastic that you recycle and feel so good about ends up going to Asia. Once there, private recycle "contractors" (who are really just individual citizens) wash the plastics in rivers and then remove labels and the remaining caps and cap rings on bottles. Much of the processing of plastics is done right on the banks of these heavily polluted rivers. The waste from these "cleaning" operations, goes into the rivers as China and the other Asian nations do not have a waste collection system and education about pollution is woefully lacking. Not only is some of the plastics we send over to Asia being dumped into the oceans, most of the plastic used by the citizens in those countries also ends up in the oceans.

So, what does the future look like for plastic recycling? For the short term, the outlook is dim. A lot of bailed plastic is sitting in warehouses and is being landfilled. Long term solutions mainly depend on us, the consumers who buy the plastic. Plastic lasts in the environment for hundreds of years.

We must change our buying habits and look for alternates to plastic such as aluminum. In the U.S., we use over 50 billion disposable plastic water bottles a year. Over half of the bottled water sold is just filtered public drinking water. If you want bottled water, buy it in aluminum cans, or buy an aluminum water bottle and fill it at home. Look for alternative packaging to plastic with cleaning supplies and laundry soap. Ask for paper bags instead of plastic at the grocery store, or better yet, bring your own bags. Globally, we must cut back on our use of plastics, but it begins with each of us.

Links:

AFE National website: www.afe.org

AFE Region 8 website: <https://afe8.wordpress.com>

AFE Chapter 140: <http://www.afechapter140.org>