

**ASSOCIATION
OF DESK AND
DERRICK CLUBS**



Tri-State News

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March 2023

Tri-State Desk and Derrick

Editor's Musings

By Donna L. Hartig



It's March; and in case your haven't noticed, the Daffodils are popping up everywhere with their bright yellow blossoms telling us spring is just around the corner. Spring officially occurs when the sun crosses the imaginary celestial equator line headed north. Imagine standing on the equator; the sun would pass directly overhead on its way north. This year that will be on March 20th. Regardless of the scientific explanation, I'm looking forward to temperatures not bouncing from below freezing to the high seventies every day or two and to start thinking about warmer weather being here for hosting the Northeast Region Meeting in May. This past week, plans for the field trip, seminars and business meeting were finalized, and the packet with all the details should arrive in your mailbox any day now--if it hasn't already.

Spring also means we're thinking about getting outside, removing winter debris, replacing trees and shrubs and planting flowers. Don't forget--call 811 twenty-four hours before you dig even in your own yard so you don't damage any buried gas, electric or communication lines. Calling 811 to locating and mark any buried lines is a free service, and it's the law. That number is the same for all states in the tri-state area.

Also, don't forget to set your clocks forward one hour before you retire on Saturday evening March 11th. First adopted in 1918 with the idea that it would save oil and electricity during WWI, there's currently a bill in Congress called the Sunshine Protection Act which would make daylight savings time permanent in the U.S. This same bill passed the Senate last year by unanimous consent, meaning no senators opposed it, but the bill stalled in the House which caused it to expire at the end of the last session of Congress.

According to a 2011 study by Matthew Kotchen, an economics professor at Yale University, "the real reason for why this policy came to be and we first started using it was because of energy, and right now it's a completely open question about whether or not it saves energy." His study found that it cost Indiana households an extra \$9 million per year in electrical bills because, although they didn't use their lights as often, they used more energy for heating and cooling. That study was conducted prior to the introduction of LED lighting which further reduces the cost of electricity for lighting.

Daylight saving time--the reasoning I always heard was to give executives more daylight in the evenings for golf in the summer and for switching back to standard time in the winter months was so kids didn't have to wait to catch the school bus in the dark. I'm not sure either of those reasonings were true. What's your opinion?

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March 2023

To: ADDC Membership

Happy March Everyone! This is Desk and Derrick Awareness Month. Now is an excellent time to promote your club and the Association. There are several ways to promote Desk and Derrick - have a Membership Drive during March, contact your local city office and have your Mayor declare your meeting date as "Desk and Derrick Day", invite friends and colleagues to your meeting or possibly get in touch with prior members and ask them to attend your club meeting. You never know who might become a member, if you do not ask! Contact your local newspaper and have your club meeting information posted in the paper. Please share the fact that an individual does not have to be employed in the oil and gas, or allied industries to become a member of Desk and Derrick. Anyone who is interested in our industry is welcomed to become a member.

As regions "gear up" to hold their regional meetings, all registration information can be found on the ADDC website. You can also attend other region meetings than your own region meeting. It is a great way to meet other members and participate in their seminars, field trips, etc.

The Desk and Derrick Educational Trust is now accepting applications for Scholarships to assist with the cost of tuition and books. You may find the criteria that must be met for consideration by going to www.theeducationaltrust.org.

Club Presidents - please be sure that your membership renewals are sent into ADO as soon as possible. Each club that does not have their 2023 dues in prior to the Regional Meeting, will not be in good standing and will not be able to vote on matters before the Meeting.

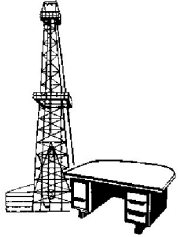
As always, if you have any questions, please do not hesitate to contact me or any member of the ADDC Board. This Association belongs to all of us and we are all in this together. We all need to move in a forward direction to accomplish our goals for the year, by working side by side.

The Rules Chairman, Angie Duplessis, provided a March letter and region meeting report, and it is uploaded to the ADDC website. There were no proposed amendments submitted to the Rules Committee by the February deadline. If you have any questions, you may contact Angie at angdupless@aol.com or myself.

"It's okay to admit what you don't know. It's okay to ask for help. And it's more than okay to listen to the people you lead - in fact, it's essential." —Mary Barra, CEO of General Motors

Greater Knowledge ~ Greater Service

Barbara Pappas



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March 2023

MLB spring training is in full swing, March Madness is days away and the spring semester is beginning at Hobart Institute of Welding Technology. Our final 2022 scholarship recipient's check is in the mail for Thomas Ward.

The 2023 Tri-State Desk and Derrick Technical or Trade School Scholarship applications have been distributed. If you know of anyone who could benefit from this scholarship, please forward them the application.

The Spring Pork Loin Fundraiser date has been set. Mark your calendars for April 21st. Girot and the gang are ready to fire up the smokers for the best pork loins around.

Donna has been working hard on the registration packet for the 2023 Northeast Region meeting in French Lick, IN. (thank you, Donna!) By the time you are ready this, hopefully you have already booked your hotel. This meeting is shaping up to be both fun and educational. This could be the final in-person region meeting, so be sure to come and see all your friends! I know I am looking forward to it.

Last call for membership renewals (maybe)! If you have not already turned in your membership renewal, please do so ASAP.

Our next meeting will be held on March 16th. More info about this meeting will be coming out soon. I hope to see you all soon!

Yours truly,

Michael Nelligan





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March 2023

Dear Northeast Region Members:

March is Desk and Derrick Awareness Month. What are your clubs doing to spread the word about Desk and Derrick? Invite your co-workers to your March meeting to learn what Desk and Derrick is about. Ask them to visit the ADDC website to learn more about our organization.

Speaking of the website, have you visited recently? Is there anything you would like to see updated or added? While your browsing, if you see any links that are not working properly, please let me know and I will pass that information along to the Technology Committee so that they can be repaired.

The Nominating Committee has begun their search for the 2024 Northeast Region Director. Please share the email with your club members and discuss a possible candidate at your next meeting. The deadline to submit the form is March 17th, 2023.

So far, I have only received two club bulletins. Please add me to your emails so that I can stay aware of what is happening in your clubs.

The deadline to file your clubs annual tax-exempt report (ADDC Form TAXE1) is May 15th, 2023. Please send your completed form and confirmation email to our region rep, Lisa Ricchiuto at lricchuto@dgoc.com.

Plans are being finalized for our upcoming Region Meeting, May 18-20th, in French Lick, IN. We will be staying at the French Lick Springs Hotel. Check out their website, www.frenchlick.com/hotels/frenchlick, to see all of the amazing amenities they have to offer! Registration packets will be coming out soon so keep your eyes out for the email. The Tri-State club is doing a great job to ensure we have a fun and educational weekend! Please keep encouraging your members to attend.

As always, please let me know if there is anything I can do for you.

Until next month,

Kelli Hiltbrand

The Basics of LED Lighting

Donna L. Hartig

We've all heard the term LED, but do you know what it is and how it works? According to an article on the internet, LED stands for Light Emitting Diode. LED lighting products produce light up to 90% more efficiently than incandescent light bulbs.



How does LED lighting work? An electrical current passes through a microchip, which illuminates the tiny light sources we call LED's and the result is visible light. To prevent performance issues, the heat LED's produce is absorbed into a heat sink.

https://www.energystar.gov/products/lighting_fans/light_bulbs/learn_about_led_bulbs

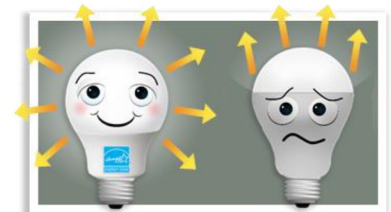
Okay, what's a "heat sink"? According to Wikipedia, a heat sink (also commonly spelled heatsink) is a passive heat exchanger that transfers the heat generated by an electronic or a mechanical device to a fluid medium, often air or a liquid coolant, where it is dissipated away from the device, thereby allowing regulation of the device's temperature.

https://en.wikipedia.org/wiki/Heat_sink

Unlike incandescent or compact fluorescent lighting (CFL), LED bulbs typically do not burn out or fail. Instead, they experience "lumen depreciation" wherein the brightness of the LED dims slowly over time. The lifetime of an LED bulb is measured by when the light output decreases by 30 percent. All that means, an LED light will last significantly longer than a regular incandescent or compact fluorescent bulb.

As mentioned above, LED's use heat sinks to absorb the heat they produce and dissipates it into the surrounding environment which keeps it from overheating and burning out. This feature is the single most important factor in the successful performance of an LED over its lifetime. Less heat means a longer life. LED products use a variety of unique heat sink designs and configurations to manage heat. Today, advancements in materials have allowed manufacturers to design LED bulbs that match the shapes and sizes of traditional incandescent bulbs as well as CFL bulbs or lamps as they are commonly called.

LED lighting differs from incandescent and fluorescent in several ways. When designed well, LED lighting is more efficient, versatile, and lasts longer. LED's are "directional" light sources, which means they emit light in a specific direction, unlike incandescent and CFL's, which emit light and heat in all directions. That means LED's are able to use light and energy more efficiently in a multitude of



Continued on Page 6

The Basics of LED Lighting (continued from Page 5)

applications. However, it also means that sophisticated engineering is needed to produce an LED light bulb that shines light in every direction.

CFL lamps are less expensive than LED bulbs, but they cannot be dimmed, and it may take some time after switching them on for them to become fully bright. Similarly, CFL lamps may not turn on or reach full brightness in very cold climates, making them less suitable for outdoor lighting.

In CFL lamps, an electric current flows between electrodes at each end of a tube containing gases. This reaction produces ultraviolet (UV) light and heat. The UV light is transformed into visible light when it strikes a phosphor coating on the inside of the tube.

Incandescent bulbs produce light using electricity to heat a metal filament until it becomes “white” hot or is said to incandesce. As a result, incandescent bulbs release 90% of their energy as heat.

Gary spent most of his working career in purchasing and warehousing in the electrical industry. During COVID, our church was looking for ways to cut operating costs and asked Gary to check into replacing the CFL lamps in the building with LED bulbs.

He found they could replace all the CFL lamps in the building with LED bulbs without having to replace the current fixtures by just disconnecting the ballasts in the fixtures that were required to operate CFL lamps. Even though the cost of the LED bulbs was initially more expensive than CFL lamps, the comparative costs for electricity to operate one LED bulb for 1000 hours is \$1.94 compared to \$4.50 to operate one CFL lamp for the same number of hours. Multiply the difference of \$2.56 per bulb/lamp by the number of CFL lamps in the building and the total was significant.

In addition, because the LED bulbs do not produce heat like the CFL lamps, the cost of operating the air conditioning would be substantially lower. Labor at the church is donated; but in most instances, there would be an additional future savings in labor costs because LED bulbs don't need to be replaced as often as CFL lamps. Gary also explained the added benefit of using LED bulbs meant twenty-five LED fixtures could operate on one circuit breaker in the electrical panel versus only four CFL fixtures per breaker. Did the church change out all their CFL's to LED's? When it comes to that much potential savings, you better believe they did.





Tri-State Desk and Derrick Club Minutes February 16, 2023



The Tri-State Desk and Derrick Club met virtually on February 16, 2023, with the following members attending: Michael Nelligan, Sam Thomas, Dan Eager, Emily VanHaaften, Jim Elder Linda Henning, Harrison Cash, Adam Dickerson, and Donna Hartig. Minutes from the January meeting were distributed in the February Tri-State News. Emily moved the minutes be approved as written, Sam seconded the motion, and it passed unanimously. There was no treasurer's report.

The IOGA meeting will be March 8th-10th. Emily, Donna, Beth Etzkorn and Lynda Middlecalf will work the Tri-State booth. The scholarship application needs to be posted to our Facebook page. Last year's scholarship winner of \$2,000 has been accepted at the Hobart Institute of Welding in Ohio, and the funds will be forwarded to the school upon receipt of paperwork. Michael reminded everyone dues for 2023 need to be received by the end of February.

Michael and RD Kelli Hiltbrand met with the French Lick Resort representative regarding the anticipated attendance for the Northeast Region Meeting in May. The Resort agreed to lower our food and beverage requirement to \$4,000 and our occupancy rate from 130 to 90 nights. They should be sending a contract addendum to Kelli.

There was a general discussion on the field trip. Even though the cost is \$3.00 higher for the longer tour at Marengo Cave, this one will best accommodate our group as it has fewer stairs and flatter terrain. Brian Nuttall with the Kentucky Geological Survey will be moderating our tour through the cave. Everyone will be responsible for the costs of their meal at Winzerwald Winery. Following our visit at an Illinois Basin production site we will be boarding the bus at approximately 3:15 to arrive back at the hotel by 4:00. The Thursday ice breaker will be in the hotel's bowling alley with everyone responsible for their own refreshments and/or bowling. The Energy Technician Certification Class-Natural Resources will be on geology and will take place Friday from 8:00 AM until approximately 2:00 PM. The cost of the "Grab and Go" lunch will be included in the registration fee. The theme for Friday night's dinner will include logos from various energy companies in the northeast region with a 20-minute slide show presentation by Countrymark and an IRPB presentation. We'll also be plugging Tri-State's scholarship program. The business meeting will be Saturday from 8:00 AM until 11:30 AM followed by a reception and then the awards luncheon at 12:00 PM. All events will be on Eastern Daylight time.

Each attendee will receive a "goody bag" at registration with water, snacks, etc. as we will not have a designated hospitality room.

Michael will check with John Girot regarding the date for our Spring Pork Loin fundraiser. The Petroleum History Annual event will be held at the Countrymark Pavilion May 11th-13th. Michael introduced our newest member, Harrison Cash who works at Countrymark in Gauging and Crude Accounting.

Sam Thomas moved to adjourn the meeting at 6:30 PM. Donna Hartig seconding the motion and it passed unanimously.

Acting Secretary, Donna L Hartig

Tri-State Desk and Derrick Club
Serving Indiana, Illinois and Kentucky



Association of Desk and Derrick Clubs
www.addc.org

The Tri-State Desk and Derrick Club was chartered in 2012 by the Association of Desk and Derrick Clubs for the purpose of educating its members and the general public about the petroleum and allied energy industries and their contributions to society. Meetings are held the third Thursday of each month. Membership is open to persons employed in or retired from the petroleum, energy and allied industries as well as individuals interested in increasing their knowledge about these industries. For more information about the Tri-State Club, contact Pres. Michael Nelligan, Countrymark Refining & Logistics, LLC, 401 Southwind Plaza, Mt. Vernon, IN 47620 Telephone: 812.833.2526

March 2023

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LeeAnn Staley 3-8
Kim York 3-19

