- 56475 Peppermint Road, South Bend, IN 46619
- Telephone: 574-287-8655 Fax: 574-233-5234
- Website: www.ibew153.com
- Active Membership: 1063
- Serving the IBEW Local 153 Six County Area

December 2018

THE 153 METER

ATTENTION!

THE GENERAL MEMBERSHIP MEETING FOR DECEMBER WILL TAKE PLACE ON THURSDAY DECEMBER 20 AT 6:00PM! THERE WILL BE FOOD AND BEVERAGES!

Come have
Breakfast with Santa
to benefit the H.E.L.P. 153 fund
on December 8, 2018
from 8:00am-11:00am
at the Union Hall.
There will be pancakes,
sausage, OJ and coffee.
Crafts for the kids.
There is a $5 donation per
person requested.

Inside this issue:

"A" Monthly Membership Dues

"A " Monthly Membership Dues for 2019 will be $39.00.

Breakdown:

$19.00 International Per Capita

$19.00 International Pension Fund

$1.00 IBEW Local Union 153

If you use the Bill Pay program with your bank, please be sure to make the appropriate changes.

ReNew 2nd Annual Euchre Tournament

February 9, 2019 6:00pm-10:30pm @ the Union Hall. Please bring a dish to share. Call the Hall to sign up 574-287-8655.

$10/team Round Robin format

18 and up. IBEW members and family

Births

Adam & Keriann Cords
Son born October 15, 2018
His name is Bain Lee
Weight: 7 lbs 11 oz
Length: 21 inches

Tim & Christina Hartz
Son born November 3, 2018
His name is Grayson Ellsworth
Weight: 8lbs 5 oz
Length: 20 inches

We will gladly list the birth of your children and grandchildren. Please contact the Union Hall with your information.

Deaths

Earl Ulbricht
Retired JIW, initiated October 1, 1975
November 11, 1946—November 5, 2018

Retiree Breakfast

DATE: January 2, 2019
PLACE: Union Hall
56475 Peppermint Road
South Bend, IN 46619
TIME: 9:00A.M.

Call the Hall to make your reservation
At 574-287-8655 or 800-986-1054.

We hope to see you here!

Congratulations to Our Recent Retirees

- Timothy Kolar
- Scott Taylor

Save the Date…

H.E.L.P. CHILI COOK OFF

***H**elping **E**lectricians **L**i**v**e **P**roperly

DATE: Saturday, February 23, 2019
TIME: 11:00am—3:00pm
PLACE: Union Hall
56475 Peppermint Road
COST: $6.00/per person or 2/$10
Ages 6 and under free

The HELP* Committee will be hosting their 9th Annual Chili Cook-off. Bring your chili to enter. There will be door prizes and raffles. Gather your family and friends to try the different chili recipes and vote for your favorite! Proceeds will benefit the HELP* Fund which provides assistance to members in need.

Course Title & Dates

CPR/ 1st Aid	2nd Tues. + Thurs. 5:30 PM
OSHA 10 Hour	email for online voucher
Comet	Nov. 19 Last names A-K
	Nov. 20 Last names J-Z

Fall Break Reg. Curriculum Nov 19-23, 2018

Call 574-233-1721 to reserve your seat. Some classes are limited in size. All classes are at the JATC EXCEPT Comet is at the Union Hall.

For other classes visit: JATC153.com

INTERNATIONAL PENSION

The International Pension Benefit Fund has applications available on the IBEW website.

Go to: www.ibew.org
Menu
Pension & reciprocity
Pension, calculations, applications & instructions

You can submit the last four digits of your social security number and card number to find out if you are eligible for a pension application. If eligible the pension calculator will give you a projection of your benefits and a link to the application.

LOCAL PENSION ELIGIBILITY REQUIREMENT

There has been some confusion on the break in service for pension eligibility . To be eligible for the Local Pension from the Michiana Area Electrical Workers Pension Fund you must first be vested. Second, you must submit your application for Local Pension benefits. If your between the ages of 55-59 you must have three months of zero reporting hours and 15 years towards vesting for you. If you are ages 60-61 one month break in service and 15 years of vesting. Check with your employer's payroll department to determine your payroll month beginning and ending dates, as it is not necessarily a calendar month.

BUSINESS MANAGER REPORT Bill Haase

Over the last approximately 50 years the Donald C. Cook Nuclear Generating Station has provided many man hours for this Local Union. From the beginning of construction to now there are many stories that are funny, serious and tragic. When I first went there as an apprentice there was not any fencing surrounding the "protected area". We pulled cable in trenches separated by old wooden scaffold planks that had been soaked in creosote. The cable was for e-fields, microwave and power to control the gates that would be installed once the fence went up. My Foreman was Wayne Haisman, he's gone now as are many of the electricians I worked alongside of then. I have seen several of our members that could weld with skill that is still talked about. Mike Farabee and Tim Newman were two of those welders. Crane Operators such as Jack Gibson and Stan Ketelhut who removed the huge radioactive steam generators from containment in 1988 and placed on multi-wheeled flat bed truck which would take them out to the tomb that was constructed for them on site. There were unexpected accidents, such as the turbine blade that flew off in 2008 that shook the turbine deck so hard that there were hydrogen fires on the deck. This accident provided many man hours to our members for over a year. Over the years regulations have increased and tightened that make it difficult to get badged and perform the work in a way we are used to doing it. This coming year (2019), we have two outages we need to make sure are manned up and that AEP does not look elsewhere for manpower. This nuclear plant, that is in our jurisdiction, is a staple of the man hours that make up our yearly total. Man hours put money in our pensions, H&W and the general fund of this Local. I am thankful for those members that now work up there and continue to work at DC Cook.

Recently we attended the Indiana State Building Trades Convention that was held at Notre Dame. Because it was held so close to us, all of our officers were invited to attend as we are allowed 7 delegates to this convention. This was right before the mid-term elections and of course as you would expect the election was of a concern. One of the speakers to address the convention was the President of North America's Building Trades Unions (NABTU) Sean McGarvey. President McGarvey spoke on the tremendous job that all Building Trades put forth towards training. All Building Trades spend collectively $1.6 Billion on the training of Apprentices and Journeyman Training. If we had a Building Trades University, we would be the 3rd largest in the country. That stat to me is amazing. The Unionized Trades train our apprentices for a 4-5 year degree, pay the apprentice to go to work and then finish their apprenticeship with no student loan debt. We have one hell of a story to tell but we do a poor job of letting anyone know about it. IBEW 153 is looking to collaborate with our NECA and JATC partners to have a plan to visit every high school in our jurisdiction at least twice a year. Allowing young people to have a viable alternative to college and knowing about such opportunities hopefully will steer them to the Unionized Trades before working non-union.

Thanks to all that went out and voted. There were some wins and some losses. Michigan got a little bluer just not in SW Michigan. In Indiana, locally was good. Brother Corey Noland won with a larger margin that he is used to. Unfortunately as we all know Senator Joe Donnelly was defeated in this election. Joe has been a supporter of IBEW 153 and we of him for the past 16 or so years. This is a big blow to organized labor.

By the time you read this Thanksgiving will be behind us and to all a Merry Christmas and a very Happy New Year. See you at the December Meeting on December 20th.

Bill Haase

ASSISTANT BUSINESS MANAGER REPORT Stan Miles

Brothers and Sisters,

Well it has been a long couple of months with the elections and all. I have looked forward to commercials about cute kids or animals. With that being said, not all the races went the way I was hoping. I did vote so therefore I feel I have the right to voice my opinion one way or the other. The purpose of your Union Hall during this election was to inform you about those candidates who were more apt to take care of your pocketbook/ wallet. We'll see what the next few years have in store for us as soon as shortly after the first of the year.

Enough about that. Health and Welfare continues to see modest gains. With those gains and the new Plan 4 that will start on January 1, 2019. We have held 2 informational meetings this past month for the Plan 4 roll-out so I hope this was helpful for you to understand how this will affect your insurance premiums in the future. What should you do if you were unable to attend your informational meeting? So here's what I have to offer to you. If you are going to retire in the next 6 months, give me a call and I'll help you understand how you will be affected and how much you should expect to pay. If it is more than 6 months then let me offer this alternative to you. Sometime in late March early April, we will host a retiree seminar for those that are at least 50 years old. At this seminar we will review the following things: Social Security, International Pension (IO) and Death Benefit, National Electrical Benefit Fund (NEBF), Local Pension, Local Money Purchase Plan (MPP), Health and Welfare (regular retirement and disability premiums),Plan 4 benefits.

ASSISTANT BUSINESS MANAGER REPORT cont

Stay tuned to the February newsletter. This newsletter will have the date of that seminar. I expect it to be on the front page. Attend if you are 50 or over, as we usually only do these seminars once every three years.

Hope to see you at the Breakfast with Santa and/or the Chili Cook-Off

In Solidarity,

Stan Miles

PRESIDENT'S REPORT - Mike Leda

Members

With November 11th just past, I would like to thank all veterans and their families for the sacrifice and service they have given our country. Just recently I was with my daughter as she was taking her husband to the airport for some extended training for the Air force. I saw how tough this separation was going to be on her and I could not help but wonder how difficult it must be, or has been for Military families when knowing the service member was going off to active duty. Again, many thanks for those that have served, and the great sacrifices they and their families go through!

Every so often I get a question as to who are the officers in our local. Most everyone knows Bill Haase is Business Manager and I am President. Here are the officer's names and the offices they hold:

E-board: Rich Erickson (Chairman), Dan Corwin, Chris Hampton, Jon Medlin, Mark Navarre, Michael Needham, and Nick Peterson

VP- Dustin Hansen

Recording Secretary-Marshall Kaminsky

Treasure- Kate Bennitt

Exam board- Jason Piontek (Chairman), Neil Bergman, Charles Buck, Brett Rocole, and Brenda Stevens

Our latest numbers for the Health and Welfare Trust Fund appear to be going on an upward pace which is great for the fund; I think these are some of the highest numbers we've seen in a long while. The Pension numbers are up more months than down with the Pension Fund over $7,000,000 which is higher than this time last year. The Money Purchase Plan continues to grow with more than $7,000,000, from last year to this year, added to the fund. Our newest Fund, Plan 4, goes into effect on January 1, 2019. At the retiree breakfast, the retirees were quite thankful for what the members have done in starting and funding this Trust Fund.

In case you did not know and are planning on having you children go to IUSB in future, the IBEW has a scholarship with IUSB run through the Community Foundation. The scholarship pays 30% cost per credit hour Tuition. Also, a $10.00 credit hour for books stipend up to $153.00. As of right now, the scholarships have been filled. If the person receiving the scholarship graduates or moves out of the program there will be open scholarships. Applications need to be in by April 1st for the fall semester if there is an opening.

Work is pretty steady right now with calls coming in. In addition, all apprentices are working and in fact six more apprentices went out this month.

There is still a need for one more person to be involved with the JIT Committee at the apprenticeship hall. If you are interested contact me at the Union Hall.

The RENEW committee will be having its **2nd annual Euchre Tournament on Saturday, February 9, 2019**, **at 6: 00pm**. Call the hall to reserve a spot.

Also, there will be the **Chili Cook Off Saturday February 23, 2019.**

Remember to Save the Date for the **105th Anniversary Party on Saturday, April 27th, 2019.**

Hope to see everyone at Breakfast with Santa, and the December Union Meeting. Please remember the Union Meeting starts at 6:00pm on Thursday, December 20th.

When writing this article, the area had its first round of snow, along with the many fender benders that come with it. Slow down, take your time, and get to where you are going safe.

Merry Christmas and a Happy and prosperous New Year!

MEMBERSHIP DEVELOPMENT

Bob Banaszak

Hello Brothers and Sisters,

I recently had the pleasure of listening to some of our third-year apprentices orate their technical writing reports. I was pleased with the depth of their reports and the variety of topics. We weren't able to get through a lot of them because they were very thought-provoking and conversation creating insights and ideas. We covered topics ranging from more hands-on labs, sleep deprivation and its effects on motor skills. The length of the school days and alternative ideas. Maternity leave, different technologies and how they are affecting and are presumed to affect our industry. Having third year apprentices teach some of the necessary skills to first years and then have fifth years maybe test them at the end. Even though we were not able to get through them all, and I had horrible note taking. It seems like our third-year class has their heads screwed on well and I'm

MEMBERSHIP DEVELOPMENT cont

excited to see their passion and intelligence running jobs in the local soon.

I thought I might touch on the subject of the order in which you request information on the job site in this article. If you are a CW or Apprentice, your guidance and instruction comes from the journeyman you are working with. Which also means questions and complaints are first addressed there. So, job site issues; your journeyman or a journeyman on the job. If you're not satisfied talk to your foreman .If you feel it's still unresolved then the shop or the JATC. If you have a contract issue concern or question you again go to your journeyman or a journeyman on the job, if you feel it's still unresolved ask your job/shop steward, then the JATC or the Hall depending on the subject. Issues school related, to your instructor first, then JATC Director, then the JATC committee. If at any time you have a question or are unsure which fork you are on or the next step, I would say contact the locals President or Vice-President for guidance.

Lastly we are obtaining more and more work in Michigan I strongly suggest that you take the code prep class and get your Michigan license either again or for the first time. If you still have it, good for you. But be aware renewals are online only this year and it sounds like it is a little convoluted so be patient.

Thank you I hope you had a good Thanksgiving. Have a wonderful Christmas, and a great New Year!

TRAINING COORDINATOR

Steve Egyed

Coordinators Report

Teaching Job Skills

To ensure the future of our industry.

Step 1: Prepare the Apprentice

- Put the apprentice at ease, let them know how important they are and that you are sincerely concerned about them. Be sure they understand that they are…our future!
- State the job task and determine what the apprentice already knows about it.
- Get the apprentice *interested* in learning.
- Position the apprentice to properly observe your performance of the job task.

Step 2: Present the job task

- Tell, show and illustrate- ONE IMPORTANT STEP AT A TIME- Stress each key point.
- Instruct clearly, completely and patiently; but *never* more than the apprentice can comprehend and master at one time.

Step 3: Try-Out performance

- Have the apprentice do the job- correct errors as they perform the task the 1st time.
- Make sure they understand *each* step.
- Continue until you are confident that the apprentice can perform the task correctly.

Step 4: Follow up

- Allow the apprentice to perform the task on their own, designate what they should do if they need your assistance.
- Encourage questions and safe work practices.
- Taper-off on coaching and follow-up, as each task is mastered, and the apprentice demonstrates confidence and ability**.**
- As a Journeyman, it is your responsibility to *coach*, *mentor* and disci*pline* the apprentice.

Steve~

Quote of the Month

R*E*M*E*M*B*E*R

"If the apprentice hasn't learned…. The Journeyman hasn't taught!"

TECH CORNER

JIM OVERMYER

As we have discussed in this column before, I feel there is a need to repeat some of the theory on how an induction motor rotates. I feel it takes much more than one or two and sometimes even more discussions to fully understand the reasoning behind what it takes to make the rotor spin in the rotating field of the stator. I was never able to ingest the complexities of motor theory with one or two sessions, so lets take another look. An AC induction motor's ability to produce torque is a product of the style of rotor installed by the manufacturer. This relates to the phase angle in the rotor conductors at frequency. How those conductors are placed in the rotor iron, along with their shape determines their ability to store energy in a magnetic field (inductance). There is basically no difference in the stators, no matter who manufactures them. Laminated steel core, slots, windings and retaining materials make them all so similar that no difference can be determined between those offered by the many producers. Torque building monsters, those with resistive material in the rotor conductors are at the top of the list, but the objective by-product generated by the resistive material has to be dealt with, ***heat***. Let's discuss the plus side of this type first, the phase angle, or what I should say, the lack of it. In a circuit that has ten times the resistance than inductance, it is considered purely resistive and the current and voltage are in phase, meaning there is no angle or 0°. When the circuit is purely resistive there in no counter voltage induced it the circuit to oppose the source. This is desirable when starting large motors across the line, as generally with a more inductive type rotor, the ***locked rotor (LR)*** currents are 6 to 8 times the ***full load currents (FLA)***. The resistive types find the LR currents are only about 1½ times the FLA due to the 0° phase angle in the rotor. This is a stretch to some, but since the only difference is in the rotor and it's phase angle, check this out! The lower LR currents are due to the CEMF induced in the stator due to the early flux in the rotor. Phase angles are nothing more than the length of time between the induced voltage and the current flow in the circuit. When dealing with an inductor, (stator windings or any type of coil on AC) you will have to deal with XL, the inductive reactance or countervoltage. As the angle increases, the length of time will increase. This timing will control when the flux surrounding the rotor conductors cuts the coils in the stator. Remember, the stator sees 3 phases from the source 120° apart, and if we pop flux from the rotor into said windings early, this produces the CEMF at a time where it opposes the source, and limits the FLA to a reasonable amount. So let's review rotation in it's simplest form. As the stator is energized and the rotating field spins in the stator, it induces poles in the rotor. This is an unlike pole from the stator pole, hence the rotor will follow the stator due to the magnetic law of "unlike poles attract". This process is described as mutual induction. As the flux from the spinning rotor cuts the coils in the stator, those lines of flux induce a CEMF in said stator and limit the current. This CEMF is one of three current limits in the stator along with XL and R. The XL is a product of self induction, or meaning when the stator is connected to a source, a countervoltage will be induced in the circuit that opposes the source that provided it. This counter voltage will have a phase angle of 90°, so the circuit current in the stator lags the voltage due to the opposition in the coils. This makes the stator pole 4.16ms behind the source EMF. The flux that surrounds the rotor conductors will be 4.16 milliseconds behind the induced voltage in an inductive rotor circuit, so with this in mind, what if the flux and the voltage in the rotor conductors were in phase, or no time difference between them. The flux in the rotor would be much earlier, 4.16ms earlier to be exact, and the

countervoltage in the stator would oppose the source at a time that would lower the LR currents down to a reasonable level. All this in a rotor circuit that is resistive and bears the heat as a result, which requires external cooling to combat it. With the resistive conductors in the rotor, there is more opposition to current flow in the rotor circuit, so the rotor will have to fall back in the stator rpm to gain enough frequency to provide the necessary torque to power the load. Like any inductive device, the higher the frequency the higher the induced voltage and also higher current. The higher current in the rotor circuit, the greater the interaction between stator and rotor and more torque is produced. While working as a tech, I worked on large stamping presses that used flywheels connected to a single throw crankshaft that would push a die down onto a similar type die to form parts in the auto industry. These large machines were powered by motors referred to as press duty motors which contained resistive type rotors so that they would produce high torque and low starting currents. With a load like those placed on the motor, it would run unloaded for extended periods while the material to be formed was placed in the die. This allowed time at low currents so the motor would cool easily and be ready for the next stroke. Now let's swap rotors with an inductive type and see how it operates. The placement in the iron and the material used to pour the conductors will effect the phase angle in said rotor at different frequencies. Let's say our rotor has around 80 rotor conductors in parallel which makes for little or no resistance in it's circuit. Hit them with 60 Hz at locked rotor and the circuit becomes inductive and the phase angle is 90°, which tells us the current lags the voltage by 90°, or 4.16ms in time. This time makes the poles in the rotor 8.33ms behind the stator, not the 4.16 as in the resistive rotor. This spread increases the distance between the stator and rotor poles, and anyone who has played with small magnets knows the farther apart they become, the less the attraction between them. With the latter currents in the rotor, the CEMF in the stator is latter and as a result the currents are high, 6 to 8 times higher than FLA. As the rotor speeds up off of LR and heads toward synchronous (the speed of the rotating field in the stator), the frequency will be lower and at a point will find the rotor falling back into a 0° phase angle. At operating speed (full load), the frequency will be very low, almost nothing. Let's find out just how much lower. A 4 pole motor will have synchronous speed of 1800rpm, and an operating speed of 1740 rpm. That tells us that the slip is 60 rpm (slip is the difference between the synchronous speed in the stator and the speed of the rotor). To find the frequency, we will multiply the slip by the number of poles, or 60 X 4 and divide the result by 120. So at this speed we have a frequency in the rotor of only 2 Hz. This provides enough interaction between the stator and rotor to produce the torque to power the load. At this speed, the current and voltage are in phase in the rotor circuit and this style produces very little heat. The max torque in this type is produced at around 1440 rpm and is far below the operating speed of the motor. At this rpm we have a 45° phase angle in the rotor at 12 Hz and the pole in the rotor is very, very strong. The motor can't run at this speed, as the CEMF is far to low and the stator currents are in the destruct range. Hope this helps!!!

JimmyO

December 2018 & January 2019

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						1
2	3 10:00am Building Trades	4	5	6 8:00am-4:00pm ION	7	8 8:00am-11:00am Breakfast with Santa
9	10	11 9:00am SWMI Building Trades4:30pm EIA 5:30pm First Aid	12 4:30pm HELP 7:00pm South Central CLC	13 4:30pm Exec Bd Mtg 5:30pm CPR	14	15
16	17 10:00am Building Trades	18	19	20 9:30am MBOSS **6:00pm UNION MEETING**	21	22
23 30	24 OPEN HALF DAY 31	25 **OFFICE CLOSED**	26 5:30pm Exam Bd Mtg	27	28	29

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		1 **OFFICE CLOSED**	2 **9:00am** Retiree Breakfast @ the Union Hall 	3 8:00am-4:00pm ION	4	5
6	7 10:00am Building Trades	8 10:00am SWMI Building Trades 4:30pm EIA 5:30pm First Aid	9 4:30pm HELP	10	11	12
13	14	15	16	17 4:30pm COPE	18	19
20	21 10:00am Building Trades	22	23 5:30pm Exam Bd Mtg	24 **7:00pm UNION MEETING**	25	26
27	28 6:00pm JATC Meeting	29	30	31 ***Last Day to Pay February's Union Dues Without Be-ing Late***		

IBEW Local 153
56475 Peppermint Road
South Bend, IN 46619

ADDRESS SERVICE REQUESTED