



MAY 2023

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Take Advantage of the

Early Registration Discount!! By May 27th.

PBACCA presents...

High-E-Fishin-Sea-MMXXIII

King Fish • Dolphin • Wahoo Tournament

Saturday, June 17, 2023

7:00 AM to 3:00 PM

*Don't miss the boat!
Register today!*



Tournament held at the

**RIVIERA BEACH
MARINA**

**Another
way
PBACCA
Serves You!**

MAY 4, 23

**PBACCA Presents
GENERAL MEETING.. VIA ZOOM
Thursday, May 4, 2023
Call Pam at 561-585-3880**

MAY 4, 23



--PBACCA 2023 OFFICERS--

President: Robin Worrell
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LEGAL COUNCIL: John Hockin - Linkhorst & Hockin, P.A.
(561) 626-8880

FINANCIAL ADVISOR: Donna M. Sotillo, CPA
Sotillo & Company • (561) 547-5730

President's Perspective



Robin Worrell

Membership Appreciation Night!

Well, our first "Member Appreciation and Social Networking Event" held on April 6 at The Beach Club Tiki was a resounding success! Live music, great food and drinks made for a great gathering of people with similar interest and seeing familiar faces and meeting new acquaintances brought our members closer together. Several people approached me to express what a good time they had. Again, I want to thank all of our sponsors and contractors and friends who attended to make this event so great!

I also want to take a moment to wish Daryl Sholar and his family great success on their new adventure to South Carolina. PBACCA presented Daryl with an appreciation plaque for all his service to our Association at our April 6 Event. Daryl was a Director on our Board since 2009 and a Plumbing and Mechanical Inspector for the Village of Wellington. He will be sincerely missed.

Our "High-E-Fishin-Sea-MMXXIII Tournament" will be here on June 17th. If you haven't signed up already, be sure to do so. This is always one of PBACCA's most popular attended events with lots of fun and prizes for everyone. Remember - you don't want to miss the boat!! Sign up Today!

I look forward to seeing everyone there.

Stay Safe and Well
Robin

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Johnstone Supply, West Palm Beach	561-689-3366
Refricenter, West Palm Beach	561-689-8075
Trane Company, West Palm Beach	561-683-3306
Tropic Supply, West Palm Beach	561-684-3997

Palm Beach Air Conditioning Contractors Association (PBACCA) is an independent association serving the needs of the HVACR industry in Palm Beach County. PBACCA is not affiliated with the national group Air Conditioning Contractors of America (ACCA). The mission of PBACCA is to assist and better enable PBACCA members to acquire, serve, and satisfy their customers.

PBACCA Hosts Member Appreciation Night



Mark O'Donnell of Cool World, Inc., Mark Worrell and Robin Worrell of State Energy, April O'Donnell of Cool World, Inc.



Cortney Whitaker, Nick Johnson, Matt Daniele and Jeff Sneed of Ferguson HVAC



The Beach Club Tiki was a great choice for the PBACCA meeting

PBACCA hosted their Member Appreciation Night, along with their General Meeting on April 6, 2023. Check-in was at 5:30 p.m. and 6:30 p.m. the meeting started. There was a change in venue. The event was held at the Beach Club Tiki in Lake Worth Beach.

PBACCA invited all past, present, and future members to an evening of conversation and cocktails and appetizers sponsored by Federated Insurance for the evening. Music was by DJ Tango Sponsored by Pro Tech Coating.

PBACCA used this meeting to let their members know how much they value their commitment to the association.

This was a great opportunity to meet the 2023 Board Members and to let them know what you would like them to do for you.

The Mission of the Palm Beach Air Conditioning Contractors Association is to better assist its members to manage their companies more efficiently, acquire, serve and satisfy their customers.

Contact Pam Ripple at 561-585-3880, or email info@pbacca.org for more information about PBACCA Annual Membership.



DJ Tango was the entertainment for the evening



Morgan Brandley and Kelly McCann of CMI Air Conditioning



Appreciation award for Daryl Sholar given by Robin Worrell, president PBACCA



GREAT Subject, GREAT Location, and a GREAT Time to Socialize with fellow Contractors and Vendors



Palmer Young of Ferguson HVAC with Tom O'Connor of Johnstone Supply Ware Group



Kristyn Kelly, Mark Worrell, and Jason Kelly of State Energy



Steven Castillo of Robert R McGill A/C and Jim Pickard of CMI Air Conditioning



Photos by Jeff Schlichenmeyer of Today's A/C & Refrigeration News,

APPRENTICESHIP INSTRUCTORS NEEDED

Florida Air Conditioning Apprenticeship Association (FACAA) is hiring! We are planning for our Fall 2023 school year. We are looking for five new instructors. Below I've listed the items for instruction based on the individual year so you can get a feel for what each year teaches.

First year instruction includes: Safety, Math, Fundamentals of the HVAC trade, Gas Laws, Refrigeration Practices, Basic Refrigeration Cycle, Tools, Brazing and Soldering, Recovery and Evacuation procedures and EPA Certification.

Second Year instruction includes: Safety, Electrical & Electronic Terms, Define AC & DC Current, Describe Series & Parallel Circuits, Discuss Basic Motor Theory, Ohm's Law and Formulas to Solve Electrical Problems, Components of an Electrical Circuit, Common Circuit Controls in A/C Systems, Safety Devices Used in Electrical Systems, Procedures for Servicing Electric motors and components.

Third Year Instruction includes: Safety, Blueprint Reading, Mechanical & Architectural Drawings, Use Basic Drafting Tools, Draw Simple Prints & Sketches, HVAC Formulas, Florida Energy Code, Calculate Heat Loss & Gain using the ACCA Manual J, Equipment sizing using ACCA Manual S, Duct sizing using ACA Manual D, Airflow Testing and Psychrometrics.

Did you see something above that you enjoy even excel at? Why not join our team? My thoughts are, if I enjoy doing this wouldn't others be interested in teaching the next generation? I know there are very well qualified people in our trade who may want to share their knowledge. I can tell you from my 20+ years teaching it's a rewarding experience. The interaction with the students, the relationships you develop, it all worthwhile. I always enjoy it when a former student calls me to say "hey" or ask a question. To me, it makes me feel like I've made a difference. I also enjoy the feedback I get every Monday and Wednesday night from our apprentices. Our trade has so much to offer the next generation, I'm happy to share in that. I believe you will have a good time interacting with your class while sharing your knowledge and experience when you decide to become an instructor for FACAA. Our classes meet each Monday and Wednesday night (September – April) from 6:30pm –

If you are interested, give us a call: 561.315.8187, or 561.644.5668

TECHNICIAN'S CORNER

Direct Current in HVAC

By Kelly McCann



Inverter systems are all the rage these days! Direct current (DC) voltage is being used more and more in higher efficiency systems and most mini split systems; we use this voltage to power components such as compressors, motors, controls, and sensors. In this month's article we will discuss a broad overview of how DC voltage is being used; although, this article is not written for any specific brand or model.

By using DC voltage through the printed circuit board we can change the speed of a motor (similar to a dimmer switch for a light). By varying the compressor and/or blower speed, the system can adjust to the actual load thus saving energy. Even on some 24-volt two speed systems equipped with an unloading scroll compressor; a bridge rectifier and DC voltage is used to shift the compressor unloader's position. Since this component is inside a hermetically sealed compressor the DC voltage to the unloader provides a "cleaner" voltage which is more reliable.

In HVAC systems that use DC voltage, the DC power source is typically a power supply that is converted from incoming alternating current (AC) voltage into DC voltage. The DC voltage is then distributed to various components throughout the HVAC system.

DC voltage works by providing a constant flow of electrical energy in a single direction. This is in contrast with AC (Alternating Current) voltage, which periodically changes direction (hertz). The constant flow of DC voltage is useful for powering electronic components that require a stable and predictable source of power. For example, DC motors can be

TEMP F	TEMP C	THERMISTOR RESISTANCE (OHMS) *	Volts DC at plug J3 EVAP TEMP (ET) Orange to Orange GAS TEMP (GT) Black to Black
64	17.78	13476.21	1.17
65	18.33	13138.29	1.15
66	18.89	12809.93	1.13
67	19.44	12490.82	1.11
68	20.00	12180.67	1.09
69	20.56	11878.94	1.07
70	21.11	11585.67	1.06
71	21.67	11300.63	1.04
72	22.22	11023.53	1.02
73	22.78	10754.14	1.00

more efficient than AC motors in certain applications, and electronic components; components such as sensors and microprocessors operate more efficiently on DC voltage. An example of how this works; sending out a "source voltage" the board is programmed to look for a certain DC voltage. This signal manipulation done by resistance is translated into a meaning. For example, if a circuit board is monitoring superheat and it receives a 1.06 DCV back from the gas (vapor) sensor; the board reads that voltage (1.06) as 70°F (*reference chart to the left*). So, in this example we are using the DC signal as a computer language.

We should note that many HVAC systems still use AC voltage for primary power and rely on invertors or converters for powering DC components such as compressors, fans, and pumps. DC voltage is typically used in higher efficiency units, mini split systems, as well as specific components within "standard" systems. On units equipped with DC compressors they are typically 3 phase motors. AC voltage coming into the machine is converted to DC and sent to the compressor as DC - 3 phase. This allows the compressor to modulate its speed by a DC control signal (back to my dimmer switch example).

As mentioned above DC voltage is used as a signal to and from sensors. In the HVAC field this ability allows the equipment to monitor pressures and temperatures (superheat, subcooling), entering air and discharge air temperatures. These systems also generate many types of error codes to aid in diagnosing as well as reminders for service.

HVAC systems may use DC voltage in various ways. Another example could be a control module receiving DC voltage from a power supply using it to operate a motor or actuator that controls a valve or damper in the system. Similarly, a sensor might receive DC voltage to power its internal electronics and enable it to measure temperature, humidity, and other environmental conditions.

Overall, DC voltage is a critical component of many HVAC systems, as it enables precise control and monitoring of various system components. Make sure you have a quality multi-meter to help in reading precise values and remember to be safe in all you do.



Sponsor the 31st Annual PBACCA High-E-Fishin-Sea Saturday, June 17, 2023

We are presently seeking sponsors on several levels. GOLD Level Sponsors are sponsors donating \$1000.00 or more. SILVER Level Sponsors are sponsors donating \$500.00 or prize items to be raffled off and BRONZE Level Sponsors are those sponsors who are donating give-away items, such as fishing items, hats, cozies etc.

GOLD LEVEL SPONSORS

T-Shirt Sponsor – Tropic Supply	\$2500.00
Hat Sponsorship - UniFirst	\$2000.00
Captains Meeting Food Sponsor	\$1500.00
Prize Sponsor	\$1500.00
Tournament Day Food Sponsor	\$1500.00
Tournament Day Food Sponsor	\$1000.00
Boat slips Sponsorship	\$1000.00
Boat slips Sponsorship.....	\$1000.00

SILVER LEVEL

Grand Prize "Cash"	\$500.00
Prize Donator	\$500.00
Prize Donator. \$500.00	
Trifecta - CMI Air Conditioning & Elec.	\$500.00
Boat slips Sponsorship	\$500.00

GOLD LEVEL SPONSORS

*The Gold Level of sponsorship may hang your company banner on June 15th and June 17th, to be recognized at the tournament and your organization will be recognized as a Gold Level Sponsor in our August issue of The Plenum, PBACCA's monthly publication and in State trade publications.

SILVER LEVEL SPONSORS

*The Silver Level of sponsorship would allow business cards and brochures to be displayed at the Prize Table during the Captains Meeting on June 15th, an 8 ½ x 11 sign bearing your company name displayed on and June 17th, and recognition as a Silver Level sponsor in The Plenum.

BRONZE LEVEL SPONSORS- \$100 Prize Awards and Prize Donators

\$100 Prize Awards for: Ugliest Fish, Top Lady Angler, My Hard Luck Story and Flip Flop It Got Away

We are looking for cozies, penlights, screwdriver sets, etc. to put in Angler Goodie Bags

*The Bronze Level sponsors will be recognized on June 15th and June 17th on a "Thank You" poster, and recognized as a Bronze Level Sponsor in the Plenum. Make sure your company name is on these items!

Yes, I would like to be a Sponsor for the 31st Annual High-E-Fishin-Sea fishing tournament.

Company _____	Name _____
Address _____	City, State, Zip _____
Phone _____	Fax _____ e-mail _____
Gold Level _____	Amt _____ Item _____
Silver Level _____	Amt _____ Item _____
Bronze Level _____	Amt _____ Item _____

Please Fax this form back to Pam Ripple, PBACCA, 561-585-3347 or call Pam with any questions at **561-585-3880. Thank you!!!**

Bronze Level Sponsorships

Available are:

SPONSORSHIP AVAILABLE:

THE ONE THAT GOT AWAY SPONSOR \$100

BIGGEST FISH STORY SPONSOR \$100

WORST HARD LUCK SPONSOR \$100

THE "COOLEST" FISH SPONSOR \$100

TOP LADY SPONSOR \$100

FANCY FISH SPONSOR \$100

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BLUE-TUBE "BILL FISH" SPONSOR \$100

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BIGGEST 2 OUT OF 3 \$100

MAKE UP YOUR OWN SPONSOR \$100

THE ABOVE LISTED SPONSORSHIPS ARE CASH PRIZES TO BE AWARDED IN FULL AMOUNT TO ONE OF THE ANGLERS AT THE HEFS EVENT. PBACCA DOES NOT KEEP ANY OF THESE MONIES.

RAFFLE PRIZE SPONSOR: **Federated Insurance**

I WOULD LIKE TO DONATE AN ITEM(S) TO BE RAFFLED WITH THE PROCEEDS GOING TO **THE MAURY JACOBSON SCHOLARSHIP FUND**. ITEM: _____

COMPANY NAME: _____

CONTACT: _____

ADDRESS: _____

CITY: _____ STATE/ZIP: _____

PHONE#: _____

FAX#: _____

E-MAIL: _____

ENCLOSED AMOUNT: _____ CHECK#: _____

THIS FUND RAISING EVENT NOT ONLY PROVIDES REVENUE FOR PBACCA, BUT ALL PROCEEDS FROM OUR RAFFLE GO TOWARD **THE MAURY JACOBSON SCHOLARSHIP FUND**. PBACCA PROVIDES FUNDING FOR **THE MAURY JACOBSON SCHOLARSHIP FUND** FOR PALM BEACH COUNTY STUDENTS INTERESTED IN PURSUING A CAREER IN HVAC/R. THIS VEHICLE IS INTENDED TO MOTIVATE AND SUPPORT THE EFFORTS OF YOUNG PEOPLE INTO THE HVAC/R CAREER PATHWAY.

IF YOU DO ELECT TO PARTICIPATE AS A SPONSOR, YOUR ORGANIZATION WILL BE RECOGNIZED AT THE TIME OF PRESENTING THE PRIZE, ON A LARGE SIGN AT THE TOURNAMENT AND ALSO IN OUR AUGUST ISSUE OF THE PLENUM, PBACCA'S MONTHLY PUBLICATION, WHICH REACHES OVER 1000 READERS EACH MONTH. SO, PLEASE SIGN UP FOR SPONSORSHIP OF CHOICE NOW!

THANK YOU FOR SUPPORTING PALM BEACH AIR CONDITIONING CONTRACTORS ASSOCIATION

REMIT TO: PBACCA, PO BOX 3407 LANTANA, FL 33465

CALL WITH ANY QUESTIONS TO PAM RIPPLE, 561-585-3880 OR FAX TO 561-585-3347

PBACCA PRESENTS...

HIGH-E-FISH-SEA MMXXIII

Palm Beach Air Conditioning Contractors Association will hold its 30th Annual fishing expedition Saturday, June 17, 2023 The Tournament will be open to all anglers.

Cash prizes will be awarded for the three largest fish in any or all of the categories: Dolphin, Kingfish or Wahoo, one prize per boat. More prizes will be announced the day of the “Captain’s Meeting” on Thursday, June 15th, 2023 and end with an awards ceremony on Saturday afternoon.

1. **Captain’s Meeting:** Thursday, June 15, 2023, 6 p.m. Location *Rafiki Tiki At the Riviera Beach Marina*

Mandatory for all Captains to attend. One person per boat please.

2. **Boat Check-in:** June 17, 2023 all boats check in with tournament committee 7 a.m. Call Pam @ 585-3880 or 308-8181.

3. **Fishing Begins:** Lines in the water at 7 a.m.

4. **Official Weigh-In:** Weigh-in begins at 12 noon all fish are to be weighed in at *Tournament Headquarters at the Rafiki Tiki at Riviera Beach Marina , 200 East 13th Street, Riviera Beach*. Boats must be in line and recognized by Official Tournament Weigh-in Staff no later than 4:00 p.m. (If in route, radio communication does not constitute being recognized.) Absolutely no fish will be weighed in from a vessel that has not been officially recognized by Weigh-in Staff by 4:00 p.m. Fishing stops and lines are out of the water at 3:00 p.m. All fish must be weighed-in directly from the vessel. Weigh Master has right to disqualify any fish for freshness. In case of a tie – the first fish weighed in wins.

All boats must adhere to the State and Federal required size and bag limit on the three tournament fish categories. A salt water-fishing license is required. Entered fish eligible for only one cash “place” prize per boat.

5. **Fishing Stops:** Lines out of the water 3 p.m.

6. **Scales Close:** 4 p.m.

7. **Awards Ceremony:** *Immediately following at Rafiki Tiki at Riviera Beach Marina.*

8. **Prizes:** First, Second and Third Largest Fish in any or all categories of Kingfish, Dolphin or Wahoo. *First Place - \$1000.00; Second place \$750.00, Third place - \$500.00, Cash Prizes limited to one per boat. There will be many other prize giveaways.*

If you have any questions, please contact Pam Ripple @561-585-3880. To register, fill out application Mail to PBACCA - “High-E-Fishin-Sea”, PO Box 3407 Lantana, FL 33465.

Tournament Agenda



Tournament Rules

1. Boat and anglers must be registered with PBACCA Tournament Committee. Late entries will be taken up to 7:00 p.m. Thursday, June 15th at Captain's Meeting. No exceptions.
2. *Early registration fee is \$275.00 per boat for PBACCA members, Non-members \$325.00. Entries received after Friday, May 27th 3:30 p.m. are \$300 PBACCA members, \$350 non-members. Early registrations are eligible for the Captain's Party prize drawing.*
3. Entry Fee includes 4 anglers per boat, 4 tournament T-Shirts, and 4 dinner tickets for Saturday, June 17th. Additional anglers are (\$50 before May 19th, \$55 after.) Additional dinner tickets for June 17th tournament ceremony may be purchased in advance for \$20 and additional T-shirts may be purchased at the Captain's Meeting for \$15 (as long as supplies last.)
4. Fish may be taken by rod and reel only. Down riggers and planers are permitted. No wire lines.
5. Dead bait, live bait or artificials may be used.
6. Chartered boats are allowed.
7. In case of a tie, the first fish weighed in wins.
8. Fishing hours are 7 a.m. - 3 p.m.
9. If you have a fish on the line, beyond the lines out time you may continue to fish, but you must radio into the committee boat. Inform them of your boat number and circumstances. All boats are still required to be in line and recognized by Official Tournament Weigh-In Staff no later than 4:00 p.m. weigh in by 4:00 p.m. to be eligible for cash awards.
10. Tournament Committee will have the final decision.
11. All boats must adhere to the State and Federal required size and bag limit on the three tournament fish categories. A salt water-fishing license is required. Entered fish eligible for only one cash "place" prize per boat.
12. PBACCA has the right to cancel the tournament and return all entry fees if the 15-boat minimum has not been met by three weeks prior to the tournament date.

Make checks payable to PBACCA and mail with entry to: PO Box 3407, Lantana FL 33465

Registration Form must be filled out completely

Boat Name: _____ Boat registration# _____ Hull Color: _____
 Boat Make: _____ Boat Size: _____ Captain: _____
 Address: _____ City: _____ State: _____ Zip: _____
 Phone :(Work) _____ (Fax) _____ E-mail: _____ Company: _____

ADDITIONAL ANGLERS

First Mate's Name: _____ Phone (Work) _____ (Fax) _____ E-mail: _____
 Address: _____ City: _____ State: _____ Zip: _____
Second Mate's Name: _____ Phone (Work) _____ (Fax) _____ E-mail: _____
 Address: _____ City: _____ State: _____ Zip: _____
Third Mate's Name: _____ Phone (Work) _____ (Fax) _____ E-mail: _____
 Address: _____ City: _____ State: _____ Zip: _____

Release of Tournament from Liability

It is expressly understood that all participants in the PBACCA "High-E-Fishin-Sea" fishing tournament enter at their own risk and that the PBACCA, their officers, directors and all persons connected directly or indirectly with the operation of the tournament or sponsors of said tournament shall be exempt from any liability caused by negligence or any act or omission, for libel, slander, loss, damage, harm, injury or death suffered by any participant, sports fisherman, their companions, mates, crew members, guest, vessels and equipment which may occur during this tournament. Each Captain accepts full responsibility and liability for their angles, crew and boat.

****CAPTAIN'S SIGNATURE** _____ Registration must be signed to be valid.

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5

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May 15, 2023 11:00 a.m. - 1:00 p.m.

WHERE

T5 West Palm Beach

1880 Old Okeechobee Rd, West Palm Beach, FL 33409



**ENTER TO WIN
a \$50 Tropic
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Bailey James is originally from Wisconsin and attended college at the Full Sail University in

Orlando, FL. He graduated with an Entertainment Business Bachelor's degree in 2018. After a few years at university, he was hired by BTU Reps LLC. as an outside salesman. Over the past 3 ½ years, he has learned the ins and outs of the HVAC/R industry. He specializes in educating Florida contractors about the importance of chemical safety as well as servicing HVAC equipment. He resides in St. Petersburg, Florida and covers a territory that includes Florida and Georgia.

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Baker
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Name: _____

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What can PBACCA do for you?

What meeting topics would you like?

Would you like to be added to email
and text msg? _____

Events Calendar

**Palm Beach Air Conditioning
Contractors Association, Inc.**

2023 CALENDAR of EVENTS

- | | |
|---------|--|
| May 4 | Board Meeting - 4:30 p.m.- Via Zoom |
| June 15 | 31st Annual High-E-Fishin-Sea Capeains Meeting
Rafiki Tiki 6pm |
| June 17 | 31st Annual High-E-Fishin-Sea Tournament
Awards 4-6 |
| July 6 | Board Meeting - 4:30 p.m.- Via Zoom |
| Aug 3 | General Meeting - 5:30 p.m.- The Beach Club
One 7th Ave. North, Lake Worth, FL
<i>Apprenticeship Graduation</i> |
| Sept 1 | Board Meeting - 4:30 p.m.- Via Zoom |
| Oct 5 | General Meeting - 5:30 p.m.
<i>9th annual food drive</i> |
| Nov 3 | Board Meeting - 4:30 p.m.- Via Zoom |

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Become Certified

**PBACCA will provide a proctor upon
request for onsite testing.**

The E.P.A. has established a Mandatory Technician Certification Program. Technicians are required to become certified under the mandatory program. Under the final E.P.A. rule, the sale of refrigerant will be restricted to certified technicians.

**For more information on EPA testing
call Pam at 561-585-3880.**

OUR MISSION: To assist and better enable
PBACCA members to acquire, serve and satisfy
their customers.

Apprenticeship Corner

Need Qualified Technicians?

The next time you have an opening for a technician, call the local Apprenticeship office at 561-262-7523. They can help you find a qualified apprentice to hire and enroll in the local PBACCA sponsored Apprenticeship Program offered at Palm Beach Community College. You'll be sure your employee is being taught the right skills and acquiring the training to become a productive journey man.

*Another way
PBACCA serves you!*