

THE IPSSAN



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The Independent Pool & Spa Service Association, Inc. exists for the mutual professional benefit and growth of its members and for the continued improvement of the pool and spa service industry.

Solar Winterizing

Protecting Customer's Solar Pool Heating Systems

By Tyler Williams, Solar Pool Supply

FREEZE DAMAGE IS VERY common in solar pool heating systems if the proper steps are not completed to protect them. The damage will occur mostly inside of the riser tubes (body of the panel) when the water freezes and expands causing rips and tears in the side of each riser tube but can also affect other parts of your system as well if the proper steps are not completed. The winterization of solar pool heating systems are needed for areas of the country that can reach 40 degrees F or below. There are two methods of winterizing a solar pool heating system, draining and isolating or utilizing freeze protection on an automated control.

DRAINING AND ISOLATING

Draining and Isolating your solar pool heating system is

the most effective method of winterization. If your system is installed to allow for gravity drainage, first you will turn your pump off (so that no water will be going through the solar) then all you would need to do is open the 3-way valve to allow all the water to fully drain back into your pool. Once all the water has drained down (usually allow 1hr – 2hr for complete drainage), simply close the 3-way valve so that solar is “off” and turn your isolation valves (either 2-way valves or ball valves) to make sure no water can go to your solar system. This will allow you to continue filtering your pool throughout the year without the worry of damaging your solar pool heating system.

If the solar pool heating system is installed in a way that does not allow for gravity



drainage, you will still need to complete the steps above while also draining the panels manually. This can either be done with the installation of a manual drain down or by taking the very most bottom connection apart to ensure the panels are completely drained. Manual drain downs can be installed for easy winterization every year and can take less than 1 hour to install, which in turn will save you a lot of time and hassle. Typically these are installed on the very most

bottom feed PVC pipe with adding a PVC Tee fitting, with the bottom part of the Tee pointed down toward the edge of the roof to install a hose bib or you can install a reducer and plumb in 3/4” – 1” PVC pipe all the way down the wall with a small ball valve so that you would never have to get on the roof to winterize the system.

FREEZE PROTECTION

Freeze Protection can be a very helpful tool in places

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A Letter from the President

HAPPY NEW YEAR IPSSA NATION! I hope all of you had a happy and safe holiday season. The holidays are over and now it is time to roll up our sleeves and get to work on that campaign I talked about last month. Remember? 5 members per month per region. Region 11 already has 3 new members signed up for January at the time I am writing this article. Again, if anyone needs ideas of how to encourage membership, how to sign up new members or just want to run your ideas by us, please feel free to contact me or Rose.

The BORD has a meeting set for the end of this month and show season is also starting. Those of you in Region 8, I will see you at your show. Mark Cannon and I will be speaking on Associations and Networking. Please come by and say "Hi!"

Well, that is all for now. As always, wear sunscreen, stay warm during the winter months and thank you for your support.

Best,

Todd Starner

IPSSA & Industry Events

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January 30, 2023
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NATIONAL PLASTERS COUNCIL ANNUAL CONFERENCE
February 8-10, 2023
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April 29, 2023
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The IPSSAN

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Executive Director
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Duties: Requests to and from BORD, associate member relations, governance information and requests for documents, IPSSA sick route oversight, Education Fund guidelines, grievance information, chapter governance tools, IPSSA.com website updates

PENNY GAUMOND
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Duties: Trade show materials requests, table top material requests, administration of water chemistry certification exam, process orders from chapters for sick route coverage cards, IPSSA merchandise & book order fulfillment

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Duties: Invoicing members, process payments, processes (financial) tax data, Swim Fund, track members that are water chemistry certified

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Solar Winterizing

Continued from front page

where the weather typically does not reach 40 degrees F or below very often. Freeze protection can be enabled on most pool automation units depending on if the automation unit has this capability. How freeze protection works with solar is when the solar temperature sensor reads 40 degrees F or below (some brands or models do not have this capability) the pump will turn itself on to run water through the solar pool heating panels to make sure they do not freeze. For the freeze protection to work, the solar pool heating system will need to be completely automated (automatic valve/actuator and a solar temperature sensor) with a pools automation system or a stand alone solar controller with 2-way communication with the variable speed pump.

Before you winterize your solar pool heating system, check to make sure the system is in perfect working order without any leaks or damage. If there are any signs of damage to the system, make the necessary repairs before turning it off to ensure a smooth and easy start up when the temperatures allow for solar to start heating the pool again. Some of the normal repairs that would need to be addressed are leaks in the riser tubes, panel connection points or the PVC pipe going to and from the solar system.

RISER TUBE

Riser tube repairs are simple to do, as long as you have the correct parts to make them. There are many different types and brands of solar pool heating panels that have different methods of making these repairs. If the leak is occurring in the riser tube (body) of the panel, simple plugs are all you need to stop the leak. If the leak just so happens to be at the welding point (where the riser tubes meet the headers), either simple plugs or a machined screw will do the trick (depending on type/style of panel).

PANEL CONNECTIONS

Panel connections are how the panels are connected together and to the PVC plumbing. Panel connections can start to leak over time by expansion and

“
Before you winterize your solar pool heating system, check to make sure the system is in perfect working order without any leaks or damage.

contraction (hot and cold weather) on panels with either rubber couplings/hose clamps or a panel clamp assembly. If the panels are connected together with rubber couplings and hose clamps, just use some silicon spray on the turning mechanism and tighten it until it is a snug fit or until the leak stops. For panels that use a panel clamp assembly (Heliocol panels for example), you will have to take the connection pieces apart and replace the rubberized O-ring on the inside of the connection. When replacing the O-ring, it is highly suggested to use a silicon-based lubricant (Magic Lube by Aladdin is one that is used most often) on the inside and outside of the O-ring to rehydrate it before attaching the panel clamp assembly back to the panel.

PVC LEAKS

PVC leaks are not common but can happen, especially in places that can have extreme hot or cold weather. If there is a PVC joint leak, just simply cut out the trouble area and reconnect the pipe using the necessary fittings, primer, cement and of course PVC pipe.

If you would like to know more about how to winterize your customers solar pool heating systems, please give us a call at (619) 312-4822 and one of our experts will be happy to help guide you through the necessary procedures and in the process adding another tool on your tool belt for helping homeowners. Visit solarpoolsupply.com for more information. ■

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Photo: Chris Higgins, Black Dog Pools, Austin, Texas

Cleaning Paint Spilled in a Pool

By Rudy Stankowitz, Aquatic Facility Training and Consultants

WHETHER IT IS BY ACCIDENT or the act of vandals, discovering paint dumped into a swimming pool is extremely disheartening. This is the intent of the crime in the case of malice, and your property owner is going to feel violated. You'll likely want to jump right into treatment, but before you start cleaning paint spilled in a pool, there are a couple of things you'll want to ensure your customer has done that they may not have thought of.

THIS IS A CRIME SCENE, SO TREAT IT LIKE ONE

- Don't clean or touch anything.
- Call the police. (Your customer will want to file a police report.)
- Document the damage. Take photographs of the swimming pool and any paint on the deck, water features, patio furniture, etc. (If paint cans or any other evidence has been left behind, take photos of

those as well.)

- Have them contact their insurance company. Vandalism is one of the standard perils covered by most homeowner's insurance policies.
- Check to see what additional information they may require.

GO GATORS!

Most of you guys already know that I covered Alachua County in Florida when I had my service company. I did dip a little into both Levy and Marion counties as well. Student housing facilities in Gainesville made up the majority of my commercial customers. So yeah, they could be rough at times.

September each year was interesting. This is when all the new freshmen away from home for the first time would test their freedom. Okay, not all, but a few would get carried away and make taking care of the pools at those facilities slightly more memorable.

ORANGE AND BLUE MAKES BROWN

It was either the last week of September or the first week of October, I don't exactly recall, but it was the Monday after homecoming. I was cleaning one of my residential customer's pools when I got the call from one of my community association customers.

“**Rudy, you got to get out here as quick as you can. A couple of our residents used paint and tried to dye the pool, both orange and blue at the same time.**”

DON'T DRAIN THE POOL!

This may be your first instinct but hold that thought. If you drain that pool, the paint will coat the walls on the way down as the level drops. Now you have an entirely different type of mess – plaster walls and floor with a tint of blotchy whatever the futz that color was.

The other problem with draining is the threat of that thing coming out of the ground. Water at 8.33 lbs. per gallon is heavy. A 16 x 30 pool holds 168,682.5 pounds of water. If the groundwater level is high and you remove all of that weight, there is a good chance that sucker can pop up. Now, this is something that homeowner's insurance is not likely to cover. General liability insurance doesn't typically cover this either.

You should not remove the water from a pool unless you are a licensed (if required) and insured (to include pop-up coverage) pool professional

with knowledge of groundwater tables and wellpoints.

REMEDICATION STEPS

- Clean or backwash filter thoroughly.
- Add 40 oz of Pool First Aid or similar enzyme product rated for treatment of vandalized water.
- Run pump/filter 24 hours per day during the process.
- Clean or backwash filter as required.
- Pressure side filter with single gauge: when pressure reads 8 to 10 psi above clean running pressure.
- Pressure side filter with two gauges: when the pressure differential of influent and effluent gauges is 8 to 10 psi.
- Vacuum filter: when vacuum gauge reads greater than 8 in Hg (mercury).
- Repeat dose every 48 hours until the pool water is crystal clear. ■



ABOUT THE AUTHOR

Rudy Stankowitz is a 30-year veteran of the swimming pool industry and CEO/President of Aquatic Facility Training & Consultants. He has conducted swimming pool related training/technical seminars throughout the world. Stankowitz is an award-winning PHTA and NRPA instructor. CPOClass.com

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Trend Alert! Salt Chlorine Generators in Spas

Tips for Managing Spa Water Chemistry

By Kevin Vlietstra, Haviland Pool & Spa

WITH SALT CHLORINE generators are now being widely used for pool water treatment, their use in spas and swim spas is rapidly on the rise. More spa and swim spa customers are choosing salt chlorine generators because they already have them on their pools, or they have learned about them being an option. At the end of the day, most owners want to spend less time performing maintenance, and these devices allow that. Salt chlorine generators on pools are very similar to those for spas, however, regardless of their similarities, there are steps that should be taken to maximize the benefits and minimize the side effects of such generators.

After the generator itself, the salt is the most critical component in making a generator produce the vital chlorine to keep water safe for bathers. Generators for pools typically need the water to contain around 3000 parts per million (ppm); in spas, those devices require around 2000 ppm of salt. However, each of these are estimates and the manufacturer should be consulted for their own target ranges for ideal

“After the generator itself, the salt is the most critical component in making a generator produce the vital chlorine to keep water safe for bathers.”

performance results. Regardless, it is important to note, approximately 0.42 lbs of salt introduces 100 ppm of salt for every 500 gal of water.

FINDING PHOSPHATES IN WATER

Being mindful of the makeup of the source water of the spa is even more important when a generator is equipped in the facility. Well water may have iron present in it, and this can quickly interact with a cell generator and create water discoloration or stains. Ideally, a filter attached to the source water, whether in the home or at the end of the garden hose, is a necessity to remove metals. Alternatively, top loading water with metal treatments containing phosphonic acid should be avoided or at least proceeded with caution, this article will expand on this later. Further, there are also common issues that most water sources face, such as elevated total alkalinity (TA) or saturated calcium levels.

City water may have its own problems when being used to fill spas with generators. Often in the United States, polyphosphates such as sodium hexametaphosphate (SHMP), sodium tripolyphosphate (STP) or tetrasodium pyrophosphate (TSPP) are used to control common metals from causing issues within a potable water system. Regardless of which flavor it arrives in, all these water treatments will introduce phosphate to water at various rates.

In most cases, the introduction of phosphates in traditionally treated spas, especially spas that are covered



when not in use, will never be an issue. Phosphates are already “fully oxidized” in water and have no impact on the performance of common oxidizers typically introduced to water. Such oxidizers include chlorine (in any form) and oxidizing shocks, such as potassium monopersulfate. However, when a spa is equipped with a generator, excess phosphates may interfere in the generator’s ability to reliably produce chlorine.

Previously mentioned was the use of phosphonic acid to control metals in spa water. These acids work well to rid metals from water, or at least reduce the visual impact of metals in water. However, use of these products will also introduce phosphate to water. Sometimes the use of these agents is necessary to solve harder problems, but the use of such chemistries should be avoided on a continuous basis.

FILTERING OUT PHOSPHATE IN WATER

Preventing the introduction of phosphate from the source water or with the use of metal agents would be an ideal scenario, however,

options for filtering out the phosphate in the filling stage are limited. When filtration is not an option, phosphate reducing agents are the next best solution. When reducing phosphates in spa water, gradually reducing the levels in the water is perhaps the best method, as it would avoid making the water turbid. Alternatively, reducing phosphate levels too quickly can cause the water to turn cloudy. In either case, the resulting precipitate allows the filter to capture phosphate. As a result, removing the filter and rinsing it is critical to removing phosphate or else it never leaves the water.

SPA WATER MAINTENANCE

As with pools, a common headache of using a chlorine generator in a spa is keeping the pH in the preferred parameters. The constant rise of the pH from the cell operating is accelerated by the aeration of water from simply using a facility’s jet pumps or bubbler system. Ultimately, testing and adjusting the spa water more often is the remedy, which is the opposite of what

Continued on page 12



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To summarize, chlorine's biocidal and residual properties are excellent, and in pool and spa water, chlorine is the primary biocide and the free available residual. Ozone is the primary oxidizer. Ozone increases chlorine's effectiveness as a biocide and residual.

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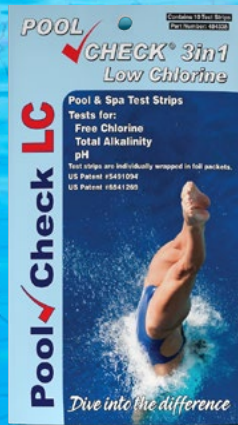
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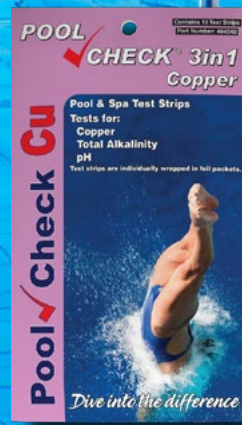
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Tips for Managing Spa Water Chemistry

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spa owners are looking for, and that is more maintenance. The introduction of borate to spa water will introduce a secondary buffer system, and the net result, for most, will reduce the frequency where the pH and the alkalinity will need to be adjusted.

Fortunately, when it comes to spa care maintenance, there is not much work to be done to the equipment itself. Filters requires their own care and dedication, so they perform their function adequately and last as long as possible. Further, spa salt cell generators do need to have their cells replaced or cleaned at least yearly to keep producing chlorine. Since spa generators do not have as much output as a generator for a pool—a vinegar solution, or even some spa filter cleaning solutions should be sufficient to clean the plates of the generator. As always, preventing any type of buildups, such as scale, is key to ensuring the life of the spa equipment—and generating cells are no exception either. Adding borate to spa water can help extend the life of those components as well.

It is very important to provide a chemical treatment that is specific to spas with salt chlorine generators, the spa water temperature, and the use and bather load. Using one or more of the tips above will assure satisfaction for all parties involved. Training staff and clients on the differences in spa water treatment in spas, compared to swim spas with salt chlorine generators is key to the clients' long-term satisfaction with to a spa.

PRO TIPS FOR SERVICE PROVIDERS

To ensure the overall wellness of the clients' hot tubs, the

following are a few tips for service professionals to keep in mind.

SERVICE TIP #1

The Centers for Disease Control and Prevention (CDC) recommends checking and adjusting hot tub chemicals every hour when bather load is high to make sure chlorine is at 2 to 4 ppm and the pH level is 7.2 to 7.8. In the case of bromine, the sanitizer levels should be between 4 and 6 ppm.

SERVICE TIP #2

Service technicians should include a note on their maintenance checklist to scrub off any slimy bacteria (biofilm) appearing on hot tub walls, so it does not continue to circulate in the water.

SERVICE TIP #3

One should also make a note of the installation date and any hardware changes or major repairs on the customer record. Many newer hot tubs come from the factory or have options to add secondary disinfection devices, which can help improve the water quality and lessen the amount of maintenance work. This being said, these devices require regular upkeep that is often overlooked, such as replacing solarized ultraviolet (UV) bulbs, or replacing an ozonator as they have a limited lifespan.

SERVICE TIP #4

Create a laminated checklist for new and existing hot tub owners. Many technicians are now leaving a laminated 'enter-exit-checklist' attached to hot tub covers. This encourages users to check sanitizer and disinfectant levels as they open

and close the hot tub when they enter and exit the vessel. Note, it is important water balance parameters are in range, and enough sanitizer is present in the water.

SERVICE TIP #5

Oxidizing with a non-chlorinated shock is very important because those soaking in the spa can excrete up to one pint of fluid every 30 minutes, sweating in the heat of the water. It is also very important to leave the cover off for a minimum of 30 minutes to allow for gas off after adding the oxidizer. Be sure to also use a high quality, broad spectrum enzyme weekly to help maintain a healthy environment. This will also help break down the organics


that were introduced for the oxidizers to work more efficiently. ■




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Kevin Vlietstra is the technical director and regulatory specialist with Haviland Pool and Spa Products. He has been working in the recreational water industry for more than 20 years. He can be reached via e-mail at kevinv@havilandusa.com.

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CPSA Drought Update

ACCORDING TO THE U.S. Drought Monitor, 97% of California is experiencing severe drought conditions. The print media in the state has been unrelenting in putting pressure on the Governor to implement water conservation mandates, as was done by Governor Brown during the 2012-2016 state drought. Much has been written over the last several months relative to the timid response of Californians to Governor Newsom's implementation of a statewide drought emergency last October and appeal for California citizen to voluntarily reduce water usage by 15%.

The reality is that in most areas of the state, water use is still 10%-15% below what was used prior to the last drought. Water agencies throughout the state have indicated to the administration that across-the-board water conservation mandates, such as imposed by Governor Brown, are not workable to further reduce water usage that has been accomplished by many districts. Nonetheless, on March 28,

2022, Governor Newsom directed the State Water Board (Board) to consider adopting an emergency regulation for urban water conservation. On May 24, 2022, the Board adopted an emergency regulation. On June 10, 2022, the emergency regulation went into effect. The emergency regulations require:

- Commercial, industrial, and institutional decorative grass should not be watered*
- Give all trees just what they need: avoid overwatering
- Follow the local requirements of your water supplier
- Urban water suppliers should implement all Level 2 demand reduction actions by June 10, 2022*

There are over 600 public water districts in California, almost 200 private water districts, 483 cities and 58 counties. Each of these entities have adopted Urban Water Management Plans (UWMP) which include water shortage

contingency plans that generally contain 4 to 6 levels of water conservation goals and impose water use restrictions for each water conservation goal.

Unfortunately, there is little standardization when it comes to developing such plans. Cities that utilize the Department of Water Resources Guidebook for developing UWMP, generally do not contain any water use restrictions relative to swimming pools and spas because of the work of CPSA during the last drought that resulted in pool filling prohibitions being deleted from the guidebook. The Guidebook current recommends that UWMP mandate or encourage the use of pool covers. Entities that hire consultants to develop their UWMP, often contain restrictions on filling new pools or more than 18 inches per month because those consultants also prepare plans for cities in other states that do not have the propensity to have as much turf as is the norm for residences in California.

Because California's approach to water conservation

efforts is local, as opposed to statewide, CPSA's response to prohibitions on filling new pools contained in UWMP has to be city by city, water district by water district. Thus far in 2022, CPSA has engaged with at least 35 cities, two water districts and one county relative to water use restrictions that prohibit filling new pools and, in some cases, prohibit the issue of new building permits for new swimming pool and spa projects.

In the great majority of cities where CPSA has engaged, the prohibitions on filling new pools are in the latter stages of their UWMP and, as such, are not currently in effect. In those cases, our effort is to raise awareness of local elected officials that such restrictions are contained in their UWMP and that such a restriction is the only prohibition that singles out one industry. If and when CPSA gets notice that the public entity is considering adoption of a higher level of water conservation, CPSA plans to re-engage with that entity

Continued on page 16

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Things to do in January

- Plan which industry tradeshows and educational events to attend this year
- Evaluate and refine your business systems
- Think ahead on supplies needed for the upcoming pool season

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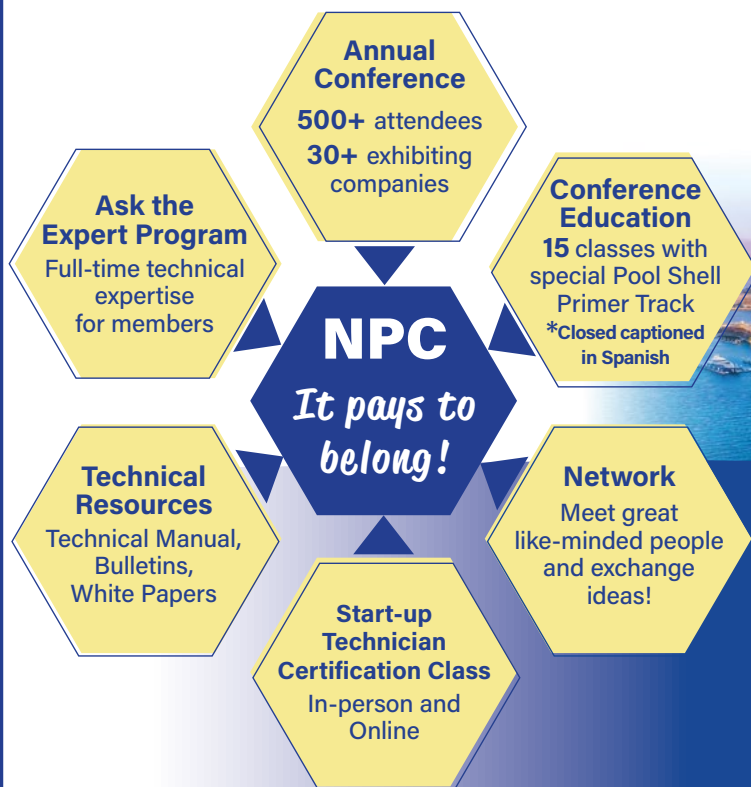
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CPSA Drought Update Continued from page 14

and do so in combination with a local grassroots effort that has proved so successful in infending off these restrictions.

Overall, the industry is faring pretty well in California, given the intensity of the drought and the media focus on water conservation efforts. CPSA did a lot of this work and was extremely successful during the 2012-2016 drought in getting public entities to remove restrictions on filling pools and spas in favor of mandating covers. As stated previously, this is the position of the Department of Water Resources and the Metropolitan Water District which is the state's largest water district. This provides considerable third part credibility to CPSA's arguments in opposition to such restrictions.

The good news is that the industry has not seen much in the way of pool filling restrictions in the Central Valley and Northern California, desert communities in the South, Orange County and in areas served by Metropolitan Water District.

Where the industry has incurred setbacks relative to prohibitions on filling new pools has been in the San Francisco Bay Area, parts of Ventura and in communities facing serve water shortages. Even in these areas, CPSA has proved that if we can get pool builders at the city council or water district meetings, we can defeat prohibition on filling new pools.

Most recently, CPSA participated in a webinar sponsored by the State Water Board that involved all the water districts in the state. The concept of the webinar was to provide an opportunity for

districts that have had a high rate of success or that have implemented special water conservation programs to share those programs and techniques with water districts throughout the state. CPSA took the opportunity to introduce its Let's Pool Together™ campaign and provide any water district that was interested in the pool and spa water saving tips for use with their own customers. This webinar was a wonderful opportunity to get in front of public and private water districts throughout the state. It is also a reminder that CPSA's public relations effort should reach out to the Association of California Water Agencies in Sacramento with our pool and spa water saving tips. This association represents over 600 California water districts.

Going forward, the industry simply must do a better job of grassroots participation at local city council and water district meetings. The facts are on our side. It seems that many pool builders believe that water use restrictions on the industry emanate from Sacramento and there is little a builder can do locally to change the outcome.

Ideally, it would be great if we could recruit local builders to inquire locally about water use restrictions in UWMP before the city or water district schedules such ordinances or conservation levels for a vote. However, getting member pool builders to testify at the hearing is most often the best chance the industry has to defeat these unwarranted restrictions.

Continuation and expansion of the association's social media campaign and press outreach is also a must. These efforts educate the

public, including elected officials to the facts about water use by swimming pools and spas and provide great credibility to the industry's arguments before cities and other public entities. Lastly, participation in webinars and/ or water industry or

water conservation meetings sponsored by the state or water organizations like the Sacramento Regional Water Board will help amplify our message that the swimming pool and spa industry is part of the solution and not water wasters. ■

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Saving Water at the Filter

By Scott Webb, Executive Editor at AQUA Magazine

THE SOUTHWEST HAS BEEN dealing with some degree of drought for decades, but the current water shortage is cause for more concern than usual. The last few years have been dry even by the standards of a dry region, and the response from state and local government has been more draconian, some of which has affected the pool industry.

In areas of Southern California, pool permits are being delayed or denied to builders, and recently, Las Vegas ruled to limit pool construction to 600 square feet or less. The main concern for our industry is that if rains and snowmelt don't return, and aquifers don't start to refill, these kinds of restrictions will not be confined to outliers, such as Las Vegas, but will become the norm. That is, the situation could get worse; on the other hand, efforts made now can mitigate that possibility.

In drought-stricken areas, the pool industry's existential battle plays out on two fronts. There is the real, demonstrable level of water usage for pools and spas, and then there's public perception.

Both are important.

The perception battle is being waged using the tools of persuasion (see sidebar, "The Battle for Public Opinion," below), and not only impacts what local councils and state legislatures might do, but also what individual homeowners might think as they contemplate the purchase of a pool.

Meanwhile, the battle to reduce actual consumption is advancing along a number of lines. Water-saving products and methodologies are improving and having

an impact, from covers that dramatically reduce evaporation to forward-looking approaches to pool chemistry that obviate water dumping to the subject of our story today, filtration.

The way we filter pool water definitely impacts usage, and that fact should be considered along with other factors such as purchase cost, resulting clarity (particle size capture capability), and maintenance effort/ costs.

WASHED AWAY

Many people, even within the industry, are surprised to learn the filter can play a role in water conservation. After all, it's sealed in a tank, and plumbed into the circulation system. But it has to be cleaned frequently, and that entails water loss, regardless of filter type.

The disparity in cleaning water usage is caused by the need to backwash D.E. and sand filters, as opposed to cartridge filters that are not backwashed, but merely spray-cleaned with a hose.

To backwash either a D.E. or sand filter, the service technician turns off the pump (important), flips open the backwash valve, and then turns the pump on again. Dirty water gushes out. The service tech watches through a little sight glass in the waste port as the rushing wastewater turns from cloudy-gray or green to clear, then shuts it down and closes the valve.

(It's worth noting in an article on conservation that over time, the backwash valve on a D.E. or sand filter consumes a fair amount of electrical energy by adding another obstruction to flow and thus, raising the circulation system head.)

SPRAY DOWN

Cartridge filter cleaning is more straightforward. There's no valve to open; you just open up the pressure bleeder on top of the unit, take off the band, remove the cartridges and spray them off.

Richard Medina, an engineer whose career in pool filtration spans all three major types of filter media — D.E., sand and cartridge — compares the water loss numbers for both cases.

"When you open up the tank on the cartridge filter,

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you lose some water in doing that. And then, if you've got a four-up unit where you have four cartridges inside of that tank, you've got a hose each one down, and a service pro might spend 15 minutes or so cleaning off the cartridges. That's 15 minutes of garden hose pressure times the cross sectional area of a garden hose outlet you're using."

A conventional sprayer

attachment is sometimes used, as is an attachment specifically designed for the job like an Aqua Comb or Filter Flosser, which is more efficient in terms of both time and water.

"And really, every gallon of clean water counts," Medina says. "So maybe you've lost 20 gallons from the tank taking the cartridges out, and perhaps another 20 to 40 gallons or so to clean off the cartridges."

On the other hand, when backwashing a D.E. or sand filter, he says, "You're running a pump at maybe 30 gallons a minute, trying to clean out your grids, so you do run through quite a bit of water when you backwash. Say you have that pump going for five minutes at 30 gpm, that's 150 gallons, depending on how much debris is loaded into your tank."

Based on that scenario, a

cartridge filter saves something in the ballpark of 100 gallons per cleaning. Of course, this usage breakdown contains a number of variables and assumptions; it's meant to be a qualitative analysis.

To get an idea of the total wastewater differential between backwashed filters and cartridge filters, the frequency of cleaning must also be considered, and this varies widely, but with 2 million inground pools in parched California, Nevada, Utah, Arizona and Texas, a shift away from backwashed filtration would have an effect on water usage in those drought-stricken states.

RECOMMENDATIONS

There are other things you can do to help save water, says Medina. "There are products out there that are specifically geared to clean cartridges — soaking solutions as well as these spray-on applications that you can use to aid in breaking down oils, grease, etc., so you're not spending an inordinate amount of time spraying down the cartridge to clean it. After a good soak, it's just a quick rinse off, and you're back in action."

Some service departments/companies have this process organized and systemized so that dirty cartridges at individual homes are replaced with clean ones on the spot, while the dirty ones are tossed in the van and brought back to the home base for mass production cleaning. There, they get their soak and spray down in batches to speed the process.

When they dry, they're ready to be installed wherever needed.

"That makes a lot of sense for a company," Medina says. "That way, they're saving water and labor, both of which are in limited supply." ■

Article originally published by AQUA Magazine, November 1, 2022.

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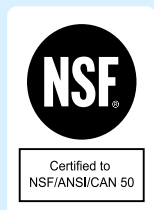
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IPSSA Code of Ethics



AS A MEMBER OF THE Independent Pool and Spa Service Association, Inc., I will utilize my professional knowledge and skilled practical workmanship in providing quality customer service. To that end, it will be my responsibility to keep informed of developments in the pool and spa industry including new techniques and product applications.

My second obligation will be to the members of IPSSA by giving them any professional assistance they may need including sick route coverage. With respect to sick route coverage, I will treat sick route clientele with professionalism and respect and will not solicit the business of a sick route client while providing sick route coverage.

My final responsibility will be to my community and its citizens. I will strive to communicate the necessity for pool safety and other issues of importance to pool and spa owners.

In these ways, I will promote the ideals and objective of the Independent Pool and Spa Service Association, Inc.

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Haviland Attributes Recent Success to Employee Ownership



HAVILAND ENTERPRISES, Inc., a globally recognized manufacturer and distributor of specialty and commodity chemistry attributes its recent record-breaking success to being an employee-owned, Employee Stock Ownership Plan (ESOP) company. This month Haviland is celebrating 10 years of being 100 percent employee-owned. Haviland Enterprises manufactures water treatment products for the swimming pool and spa industry under the Haviland Pool and Spa products division with well-known brands such as Proteam, Spa Pure and Salt Support.

“Haviland’s success is a reflection of our ESOP culture,” said Meg Post, Haviland President and CEO. “Our employees take immense pride in their jobs and work extremely hard to create value for our customers, employee-owners, and communities.”

Haviland Enterprises, Inc., the holding company for Haviland Products Company, Haviland Pool and Spa and Baleco International, will reach a significant milestone of \$200 million in sales this year.

“Our team’s commitment to providing customers with creative chemistry solutions has allowed us to thrive in a difficult operating

environment, leveraging our chemical manufacturing and formulation capabilities to launch new products and service new markets,” said Post.

Currently, Haviland employees average nine years of service, which many attribute to the ESOP.

An ESOP is an employee retirement benefit plan that enables companies to give a portion or all of its stock to employees through a trust. The company repurchases shares following employment, allowing employees to

accumulate wealth based on the company’s growth and success.

“It’s incredibly rewarding to build long-term, equitable wealth for all of our employees,” said Post. “I attribute our success to the dedication of our team, who think and act like owners and are continually finding ways to drive growth through investment and continuous improvement.”

Founded by J.B. Haviland in 1934, Haviland became a partial ESOP in 1997 with 54 percent of the company owned by the Haviland family and 46

percent owned by employees. The family sold its remaining shares to the ESOP in 2012. ■

HAVILAND ENTERPRISES, INC. Founded in 1934, Haviland Enterprises, Inc. is a chemical supplier for cleaning, plating, recreational water, and other applications. It is an employee-owned ESOP company comprised of two divisions, 280 employees and over 600,000 square feet of manufacturing space. The company has six production and warehousing locations throughout the United States including its headquarters in Grand Rapids, with additional manufacturing facilities in Kalamazoo North Bend, Ohio and Chandler, Arizona.

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King Technology Partners with TerraCycle® to Make Empty FROG® Cartridges Recyclable

EMPTY FROG® HOT TUB Cartridges are now recyclable. Once collected and processed into raw material, they will be made into useful items that everyone can enjoy.

King Technology, makers of FROG sanitizing products for residential hot tubs, is partnering with TerraCycle®, a global recycler known for “recycling the unrecyclable.”

“We’re very excited about this program,” Jackie Rieck, director of marketing for King Technology stated. “It’s the first of its kind in the industry and we hope it will lead the way to more sustainability in our industry.”

FROG hot tub Cartridges are prefilled, which makes hot tub water care easy. People don’t have to measure anything, they simply open the package and insert the Cartridges into their hot tub system according to package directions. In

addition to ease of use, prefilled Cartridges keep potentially hazardous contents away from contact with people.

Because the hot tub industry’s sanitizing products come in plastic containers or pouches that contain chlorine or bromine, they are typically not accepted through local recycling services.

However, a partnership with TerraCycle makes recycling easy. Retailers of FROG hot tub products can sign up to participate in the FROG Recycle program. When they do, they put a dedicated Recycle box, TerraCycle’s Zero Waste Box™, in their store. Their customers put empty FROG hot tub Cartridges into the box. This increases store traffic for retailers who participate in the program while enhancing customers’ experience with an exciting new recycling program.

When the Recycle box is full, it’s shipped to TerraCycle. TerraCycle operates dozens of Materials Recovery Facilities (MRFs) in 21 countries and handles hundreds of different waste streams. When the empty Cartridges are received at TerraCycle’s MRF’s, they’re processed into usable raw material and transformed into common, useful products like park benches, picnic tables, outdoor chairs, decking, and railroad ties.

“This easy all-in-one solution will help protect



the environment and make a positive impact on the next generation of consumers,” states Alex King, regional sales manager, King Technology.

The FROG Recycle program launched at the International Pool | Spa | Deck Expo in Las Vegas the week of November 14, where hot tub store owners responded enthusiastically.

This is a new program, one they most likely had not heard of previously and a never before tried program for the hot tub industry.

“This will be attractive to our customers and show that we’re trying to help the environment by reducing plastic waste,” stated Jake & Kristen Durfee, from Backyards & Billiards, in Colorado.

For more information contact Alex Granlund at 952-646-4339. ■



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TAKE ADVANTAGE

PENTAIR REBATE PROGRAM

PENTAIR AQUATIC SYSTEMS appreciates the support of IPSSA membership. Pentair is pleased to continue offering IPSSA a rebate incentive based on individual product purchases of each member.

Pentair will reimburse IPSSA National one dollar (\$1.00) for each whole good that a member purchases throughout the year. The list of qualifying whole goods is the same that are listed in Pentair's PIP program, but basically pumps, filters, heaters, heatpumps, cleaners, automation systems, sanitizers and colored lights are included.

For IPSSA to receive payment each member must register individually on the [Pentair IPSSA Incentive Program Registration Form](#) and also available on the IPSSA member portal site under [Member Only Exclusive Offers](#). This will allow Pentair to monitor and collect electronically from participating distributors purchase details, or direct from the member purchases for the rebate accumulation.

If a member does not register, their purchases will not qualify and cannot be added later.

The Pentair Incentive Program reflect purchases made between the dates of October 1st through September 30th during each rebate year.

This program does not affect any member purchases that may also currently be individually enrolled in the PIP program. If dealers have any questions regarding the program, please have them dial 800-693-0171 or send an email to rewards@pentair.com.

The funds generated will be used for IPSSA's continuing education and research programs.

Letters to the Editor

Letters to the editor must be accompanied by a name, valid e-mail address and daytime phone number for verification purposes. (Your phone number and email address will not be printed.). Your name will be published with your letter unless a compelling reason for withholding your name is given. Letters to the editor containing erroneous or unverifiable information will be edited or rejected. No letter that makes personal attacks on someone's character will be published. The editorial staff reserves the right to edit for length or grammar or reject submitted material that does not meet these standards. Letters requiring a response will be held for publication until the response is received. Opinions expressed in published letters do not imply endorsement by IPSSA.



Resource Corner

IPSSA MEMBERS Retrieve the Arrow/HUB Insurance Claims Report, via IPSSA Member Portal under resources. If you can't find it there, check out the IPSSA Chapter toolbox, it will be waiting for you there.

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INSURANCE COVERAGE THROUGH HUB/ARROW



Insurance Coverage Through HUB/Arrow Arrow Insurance Service has proudly been the endorsed insurance provider to IPSSA since it was formed in 1988.

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PENTAIR REBATE PROGRAM



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SKIMMER DISCOUNT OFFER



For IPSSA members, Skimmer is offering 50% off Skimmer subscription fees for their first initial two months of service.

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Calling all IPSSA Regular Members! IPSSA is recruiting for volunteers to serve on the IPSSA BORD committees.

THE COMMITTEES MEET FOUR TIMES a year through Virtual experience. With this format very little time is taken away from your business or family. You will be able to work with the IPSSA BORD to ensure your organization is doing all it can to help the members and the community it serves. The committees are as follows:

- EDUCATION COMMITTEE**
 Provides advice to the BORD on the strategic directions, development of the educational activities of IPSSA and public awareness to the community. Oversees the IPSSA Education Fund.
- MARKETING AND OUTREACH COMMITTEE**
 Designs and implements strategies for promoting IPSSA by continuously strengthening its brand and message - Knowledge through Community
- MEMBERSHIP COMMITTEE PROGRAM**
 Promotes and facilitates the recruitment and continuity of IPSSA members

Please submit your email intent with your name, and committee you wish to serve. Those wishing to volunteer may select one-committee to serve. If interested, please submit your name right away. If you are not selected for the committee of choice, please know that committees change throughout the year and we will keep your name on file. If you are interested or would like more information about the committee purpose and how best you can serve, please feel free to contact me, Rose Smoot at 888- 360-9505 or rose@ipssa.com ■



IPSSA's Path to Professionalism Member Spotlight

IPSSA's first and foremost priority is to assist its members with growth and professional development through IPSSA's community, education, and support. Each month we will be highlighting a member through our IPSSA's Path to Professionalism Member Spotlight. This month's Path to Professionalism Member Spotlight is on Stephen Titone of the IPSSA Region 9 – North Houston Chapter.

“**The Path to Professionalism to me means being able to plug into a proven system of techniques/standards that will assist us in being able to better service our customer base.**

I have gained a wealth of knowledge from IPSSA members including how to complete certain repairs, which tools and parts to utilize for specific challenges, the most effective types of chemicals for a given situation, and the best customer agreement forms to utilize.”

STEPHEN TITONE
 Clear Blue Pools
 IPSSA Region 9, North Houston Chapter



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Seminar Schedule

| Room 1 | Room 2 | Room 3 |
|--|--|--|
| 8:30 - 10:00 Finding Your Focus For 2023 David Hawes | 8:30 - 10:00 Do's & Don't Of Contracting In Your Pool Business CSLB | 8:30 - 10:00 Hayward Pool Cleaners Installation/Repairs Hayward |
| 10:15 - 11:45 What's New On The Pad From Pentair? Mark R. Lane - Pentair | 10:15 - 11:45 Gas Heater Installation & Troubleshooting Raypak | 10:15 - 11:45 Heat Pump Solutions for Pool & Spa Heating In A Decarbonization World Aquacal Autopilot |
| 12:00 - 1:30 Common Pool Problems Defined By IPSSA & NPC Training Manuals Kent Westfall | 12:00 - 1:30 Jandy Automation Fluidra | 12:00 - 1:30 Estrategias Quimicas Para Ahorrar Dinero Orenda (En Español) |

GIANT RAFFLE
 Bring money to purchase raffle tickets. OVER \$10,000 IN PRIZES
The Peat Burke Gnormous Collection of Antique Pool Equipment on Display

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 San Diego, California 92123
 (858) 277-8888



v v v -qlf lnm6s aklsno-bnl



Questions/Concerns call Jon McArthur, Chairperson
 (619) 672-3760 Email: info@region7tabletop.com

IPSSA would like to welcome three new Associate Members: CCEI USA, iWallet and Best Clear System!



CCEI USA

CCEI USA is an innovative electrical pool equipment manufacturer based out of Inglewood, California (right across the street from LAX). Since their humble beginnings in France over 37 years ago, they have continued to innovate and make long-lasting,

high-quality (and bright!) pool lights, light controllers, bubblers, simple automation systems that can modernize any pool, connected chemical feeding systems, and low voltage, pool and spa-graded transformers, all at reasonable prices. Their products are available in distribution or you can work directly with them!

Visit www.ccei-pool.com for more information.

iWallet

iWallet is the #1 processing app that's designed to accept all forms of payments in the field. The revolutionary app gives employees the freedom from hardware and ultimately gives customers different payment options.

Pool and spa companies with two or more technicians can now accept all forms of payments

from a smartphone with iWallet. Processing transactions in the field helps save time and speeds up cash flow.

The app free is to download for both android and iPhones and supports accounting functions to run a successful business. iWallet includes bank level security and touchless processing to keep your employees and customers safe from germs.

Some key features are iWallet is one of few business apps to convert paper checks into electronic transactions. This allows businesses to receive funds faster and improve working capital. It comes with built in reputation management solution to get Google reviews without asking. Also include is a tipping tool so your employees can make more money.



iWallet

What you can expect:

- Low flat rate processing fees
- Mobile remote check deposits
- SMS-based touchless signature capture
- QuickBooks and scheduling apps integration
- Unlimited sub accounts to steam line account reconciliation

What's even better:

- No hardware to purchase
- No long term contracts
- No set-up/cancellation costs
- No daily/weekly transaction limits

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- Easy to download app with built in fraud protection
- Bank-level security backed by Wells Fargo and Fifth Third Bank

Your business moves fast – and your funds should too. iWallet is the easiest and fastest way to process payments. The app offers 256-bit SSL encryption, so you can rest assured all payments are processed secure.

Go to iwallet.com or email jim@iwallet.com for more info.

Best Clear System

The Best Clear System, pioneered and developed by its founder Harold Tapley, began not just from a need of water savings in the drought stricken western US, but also from a desire to create a product which not only helps homeowners, pool builders and pool service providers, but also

helps our environment. As an eco-conscious company, Azure Fluidity Systems LLC is excited and proud to introduce their revolutionary technology into the pool industry which will save countless gallons of wasted water over time. In a world of ever-growing demand for clean fresh water, the importance of conserving every drop cannot be overstated.

Their premise is simple: save the pretreated water

from each backwash instead of introducing the chemically treated water back into the environment. The Best Clear System works by utilizing their GM-100 POD to capture backwashed water instead of wasting it. The water is captured and held in the POD allowing the turbidity to decant or settle to the bottom, and the cleared water can then be reintroduced through the filter into the pool, saving thousands of gallons of water per pool each year. Their technology is industry changing by mitigating illicit discharges from filtration services that require water waste. With the introduction of the Best Clear GM-100 POD, they are able to help homeowners and pool service professionals virtually eliminate pretreated water waste with chemicals, salts, acids, biocides & metals which can damage fragile ecosystems from entering the environment and save money in the process.



At Azure Fluidity Systems LLC, they are not only happy to have been able to introduce such an amazing product into the market, but they are very excited for the opportunity to educate each person who comes to us on the BMPs (Best Management Practices) and importance of conserving such a precious resource as our fresh water.

For dealer inquiries, contact Harold at 209-629-8485. ■



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WWW.POOLELECTRICAL.COM**



FICTION vs. FACT

1. Membership in IPSSA means you have to participate in the IPSSA Insurance Program through Arrow/HUB Insurance Service.

FACT: Membership in IPSSA requires you to have general liability insurance with a minimum of \$1Mil limit. Proof of insurance must be provided upon acceptance of membership.

2. As a new member of IPSSA you must pass the IPSSA Water Chemistry Exam immediately.

FACT: A new member has up to one year to pass the IPSSA Water Chemistry Exam or may provide a certificate of training from one of the following courses: IPSSA Water Chemistry Exam, Professional Pool & Spa Operator (PPSO), Pool Chemistry Certified Residential (PCCR), Certified Pool Operator (CPO), LA County Health Department License, Florida Registered/Certified Pool and Spa Exam. Each Chapter can accept alternate certification or still require IPSSA Water Chemistry to be passed. All proof of alternate certification must be sent to IPSSA National by the Chapter President, not the Member.

3. As a prospective member you must attend three meetings before acceptance of membership.

FACT: That is not IPSSA National Policy, chapters do have the authority to adopt meeting requirements for their prospective members.

4. Chapters must learn how to file insurance claims.

FACT: Chapters are not required to file an insurance claim. Individual members should be responsible for filing and contacting their insurance broker.

5. IPSSA National and Chapter dues include insurance fees.

FACT: Your membership dues

(formerly known as fees) do not include insurance or any service fees.

6. Members pay a reinstatement fee.

FACT: IPSSA National does not charge a reinstatement fee. The only time member is charged a fee by IPSSA National is for returned checks.

7. IPSSA National collects fines for chapters on individual members.

FACT: Chapters and regions are responsible for collecting fines to individual members.

8. Chapters can buy gift cards or hand out cash to chapter members from dues, chapter support and/or manufacturer rebate programs.

FACT: Chapters may not expend any Chapter funds for general gifts for chapter members (including their families, employees, and designates); distribution of excess revenues of the Chapter; payment of business expenses of Chapter members (including most insurance) unless approved in advance and in writing by the IPSSA Board of Regional Directors.

9. IPSSA doesn't contact or call me when I haven't paid my dues.

FACT: Multiple emails are sent out during the month noted "IPSSA Membership Past Due – First Notice/Second Notice." If we don't receive payment by the end of the month a cancellation notice is sent out to the member and we alert Arrow Insurance if you are enrolled.

10. IPSSA won't let me rejoin after I've been canceled for membership.

FACT: IPSSA is more than willing to have members rejoin that accidentally dropped. All we ask is for the members to pay their past membership dues so there is no lapse in membership. ■

IPSSA RELATED EVENTS



IPSSA NATIONAL WOULD LIKE TO CONGRATULATE
Michelle Watson of the IPSSA Ventura Chapter for winning Pool Nation's 2022 Pool Girl of the Year!

We would also like to congratulate the following IPSSA Associate Members on their 2022 Pool Nation Awards:

HAYWARD POOL PRODUCTS

Variable Speed Pump of the Year, Salt System of the Year, Pool Cleaner Suction of the Year, and Heat Pump of the Year

FLUIDRA NORTH AMERICA/JANDY

Automation of the Year, Best Valve Automation, and Heater of the Year

AQUASTAR POOL PRODUCTS

Best Residential Filter of the Year and Innovative Product of the Year

ALPHA WEST MARKETING GROUP

Korey Wax, Sales Rep of the Year



THE IPSSA FORT WORTH CHAPTER

held its Christmas celebration on the 13th of December. 60 people were in attendance to close off the year, which included lots of laughs and camaraderie with vendors, chapter members, family and friends.

IPSSA's Find a Pool Service Professional Search Function



DID YOU KNOW THAT POTENTIAL CUSTOMERS can search for a pool service directly from the IPSSA website? These results populate an IPSSA member near them. Log into your member portal to add your company logo, website link and social media links to enhance the search results for your company. If you need help logging into your member portal, send an email to memberservices@ipssa.com to reset your password.



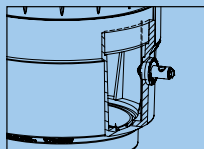
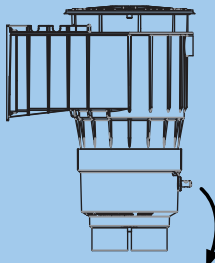
Renegade Bonded Skimmers

Is your pool water electrically safe?

USL/CNL – Bonding Kit, Model BK2200 Tested, Certified and Listed By UL to the requirements of UL 1081, UL 1563 and CAN/CSA-C22.2 No. 218.1 Certified to meet Article 680.26(c) in the NEC for bonding pool/spa water.



Comes standard with reversible round or square lid, except for commercial grade fiberglass pools



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New Products



New SpaPure Salt Start

New SpaPure Salt Start is a super-fast dissolving salt that uses an exclusive formula to keep spa water in balance longer. Using technology to help buffer spa water, this product naturally reduces the

common corrosion found when using traditional salt in spas. As a result, the product keeps spa surfaces and equipment free from scale. Includes natural water softeners so users have a more enjoyable soaking experience. Available in 5lb bucket. Made in USA. **Learn more at www.spapureusa.com**



New and Improved PRO SERIES® Boric Acid

PRO SERIES® Boric Acid is a water enhancer that buffers and helps keep pool water balanced, providing crystal clear, soft feeling swimming

pool water. Pro Series Boric Acid helps brominating, chlorinating or biguanide programs to work more efficiently. Designed for once-a-year use and topping off as needed, simply add 15 lbs of ProSeries Boric Acid into 10,000 gallons of water. Test borate levels twice a year (or more often if water is lost) and maintain a borate residual between 30-35 ppm to see amazing benefits all season. Available in 40lb bucket, ask your supplier about Pro Series Boric Acid today! **Learn more at www.proseriespool.com**

The Best Clear System GM-100

The Best Clear System GM-100 is a futuristic methodology of water savings and environmental protection when cleaning pool filtration systems. It utilizes our Backwash eco-Sustainability Tank or “Best Clear POD” a revolutionary, proprietary, turbidity sediment capture, pretreated water ReUse system for swimming pools.

There are many ways water is wasted and lost from a pool, including evaporation, leaks, and splash out, but filtration backwashing is the largest single use of water by pools. This is



an issue for multiple reasons, not the least of which is that most backwashed water goes into MS4 gutters or landscape areas and back into our environment with chemicals, salts, acids, biocides & metals which can damage fragile ecosystems. The Best Clear System also will save your homeowners thousands of gallons of water when cleaning their media filter allowing ReUse of pretreated water instead of dumping it into

the environment. This not only saves you or your homeowner money each year on chemicals, but also prevents your company or homeowner from fines for illicit discharges by being environmentally conscious.

The Best Clear System works by utilizing our GM-100 POD to capture backwashed water instead of wasting it. The water then is held in the POD allowing the turbidity to decant or settle to the bottom, and the cleared water can then be reintroduced through the filter into the pool, saving thousands of gallons of water each year.

With our U.S. population that has doubled over the past 50 years, a thirst for clean water which has tripled, and at least 40 states anticipating water shortages by 2024 - Harold Tapley, Founder of Azure Fluidity Systems LLC. is proud to introduce a water saving, environmental product which meets the BMPs (Best Management Practices) for the swimming pool industry.

For dealer inquiries, contact Harold at 209-629-8485.

The Tild— New from CCEI USA

The Tild is a simple, easy-to-use, pool automation system for a simple body of water, either pool or spa. The Tild allows users to

remotely control any heater, pump, and lights via Bluetooth or Wi-Fi. Users can remotely control when lights come on, as well as when to kick in the heater and filter the pool, no matter the OEM. This allows customers to have the benefit of automation without breaking the bank. It has a simple and easy-to-use interface, and wiring is straightforward, with terminal blocks that are labeled for ease of use. The app interface is sleek, and once connected to Wi-Fi can be monitored from anywhere in the world. **Learn more at www.ccei-pool.com.**



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- FREE pool cleaner inspection

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Chapter Information and Meetings

REGION 1 Northern California

Ryan Ruminson, Director

530-401-7346

ryanruminson@sbcglobal.net

Capital Valley (Sacramento)

First Wednesday, 7:00 p.m.

VFW 8990 Kruthof Way, Fair Oaks

President: [Jason Hilton](#), 916-224-3113

Delta (Stockton)

Third Wednesday, 6:00 p.m.

The Elks Lodge

19071 N. Lower Sacramento Rd.

Woodbridge

President: [Rick Plath](#), 209-456-1605

East Bay

Third Tuesday, 6:00 p.m.

Pleasant Hill Community Center

320 Civic Drive Pleasant Hill

President: [Katrina Pedersen](#)

925-289-9231

East Contra Costa

Fourth Tuesday, 6:00 p.m.

La Fuente Mexican Restaurant

642 1st Street, Brentwood

President: [Kirk Olsen](#)

El Dorado

Second Thursday, 6:30 p.m.

Shingle Springs Community Center

4440 S. Shingle Road, Shingle Springs

President: [Shawn Panico](#), 916-201-6245

Elk Grove

Second Wednesday, 7:00 p.m.

Logan's Roadhouse

9105 W. Stockton Blvd., Elk Grove

President: [Deon Nesson](#), 916-870-7630

Gold Country

First Monday, 6:00 p.m.

2515 Grass Valley Hwy., Auburn

President: [Alex Tobiasz](#), 916-759-8028

Modesto Central Valley

Third Tuesday, 6:00 p.m.

Mi Casa

624 N. Golden State Boulevard

Turlock, CA 95380

President: [Albert Camarillo](#)

209-628-2717

Sacramento City

Fourth Wednesday, 7:00 p.m.

Plaza Hofbrau

2500 Watt Avenue, Sacramento

President: [Derin Schroeder](#)

916-367-9934

Tracy

Fourth Thursday, 6:00 p.m.

Perko's Cafe

1321 W. 11th Street, Tracy

President: [Beau Hoff](#)

West Placer

First Thursday, 5:30 p.m.

Strikes Bowling Alley

5681 Lonetree Blvd., Rocklin

President: [Bryan Soto](#), 916-258-5114

REGION 2 Central California

Beau Braisher, Director

661-332-4952

braisherpools@gmail.com

Bakersfield

First Tuesday, 5:30 p.m.

Rusty's Pizza

6675 Ming Ave., Bakersfield

President: [Trevor Smith](#), 661-472-5288

Central Coast

Second Wednesday, 6:00 p.m.

Nino's Grill, Templeton

President: [Matt Mazzo](#), 805-614-3114

Conejo

Second Wednesday, 7:30 p.m.

Alpha Water Systems

725 Cochran Street #A, Simi Valley

President: [Dennis Van Sloten](#)

805-813-6154

Conejo Valley

Second Wednesday, 6:30 p.m.

Superior Pool Products

1200 Lawrence Drive #400,

Newbury Park

President: [Michael Flanagan](#)

805-444-7960

Fresno

Fourth Tuesday, 7:00 p.m.

Roundtable Pizza

First & Bullard, Fresno

President: [Larry Kirkorian](#), 559-681-4467

Santa Barbara

Second Monday, 6:30 p.m.

Rusty's Pizza Parlor

232 W. Carrillo (downtown),

Santa Barbara

President: [Joe Burich](#), 805-451-1963

Ventura

Third Tuesday, 7:00 p.m.

Poinsettia Pavilion

3451 Foothill Rd., Ventura

President: [James Eubanks](#), 805-889-5977

Visalia

Third Wednesday, 6:00 p.m.

Amigo's Cantina

5113 W. Walnut Avenue, Visalia

President: [John Cossey, Jr.](#), 559-380-8886

REGION 3 Northern L.A. County, California

Eric Nielson, Director

818-710-1628

willowcreekpools@gmail.com

Antelope

Second Monday, 6:00 p.m.

SCP Antelope Valley

4514 Runway Drive, Lancaster

President: [Steven Polovina](#),

661-236-6095

Diamond Bar

First Thursday, 7:00 p.m.

PEP 563 W. Terrace Drive, San Dimas

President: [Robert L. Betts](#), 626-757-6707

Foothill

Third Thursday, 7:00 p.m.

American Legion Hall (Downstairs)

4011 La Crescenta Avenue, Glendale

President: [Jay Laughrey](#), 818-957-5298

San Fernando Valley

Third Wednesday via Zoom

President: [Ivan Vance](#), 818-376-8541

San Fernando Valley Metro

First Tuesday, 7:00 p.m.

Canoga Bowl

20122 Vanowen, Canoga Park

President: [Eric Nielson](#), 818-710-1628

San Gabriel Valley

Second Thursday, 7:00 p.m.

PEP 1862 Business Center Drive, Duarte

President: [Ron Hopwood](#), 626-806-4670

Santa Clarita Valley

First Thursday, 7:00 p.m.

Vincenzo's Pizza

24504 1/2 Lyons Avenue, Newhall

President: [Glen Batista](#)

REGION 4 South L.A. County, California

Adam Morley, Director

310-493-3565 | adam@paradisepools.biz

Central Los Angeles

Second Monday, 6:30 p.m.

Han Woo Ri Presbyterian Church

1932 S. 10th Ave, Los Angeles

President: [Fred Choi](#), 213-598-0078

East Long Beach

Second Tuesday, 6:30 p.m.

Ecco's Pizza

2123 N Bellflower Blvd., Long Beach

President: [James Burkhalter](#),

562-305-6929

South Bay

Second Wednesday, 7:00 p.m.

American Legion Hall

412 S. Camino Real, Redondo Beach

President: [Rick Morris](#), 310-755-5279

West Side

Second Tuesday, 6:30 p.m.

American Legion Hall

5309 S. Sepulveda, Culver City

President: [Richard Okamoto](#),

310-927-2411

Whittier

First Wednesday, 7:00 p.m.

Superior Pool Products Santa Fe Springs

President: [Albert Navarro](#),

562-927-6757

REGION 5 Orange County, California

Michael Denham, Director

714-891-6180 | denhampools@gmail.com

Anaheim

Third Wednesday, 6:30 p.m.

Roundtable Pizza

12829 Harbor Blvd., Garden Grove

President: [Cal Pratt](#), 949-230-7462

Central Orange County

Last Tuesday, 7:00 p.m.

Chapter meets virtually via zoom

President: [Jeff Steinker](#), 949-292-4026

Dana Point

Second Tuesday, 6:00 p.m.

Coco's Restaurant

Crown Valley at I-5, Dana Point

President: [Cliff Gross](#), 949-587-9773

Mission Viejo

1st Tuesday of every month, 6:00 pm

Laguna Hills, CA 92653

President: [Chris Dodds](#), 949-683-6076

Orange Coast

Last Monday, 5:00pm

Roundtable Pizza on Adams and Beach

President: [Rob Mangus](#), 714-318-1254

Orange County Pool Professionals

Last Monday, 6:00 p.m.

Claim Jumper (Banquet Room)

18050 Brookhurst St., Fountain Valley

President: [Jim Romanowski](#), 714-404-2550

Southwest

First Wednesday, 6:00 p.m.

ABC Pools

10560 Los Alamitos Boulevard,

Los Alamitos

President: [Brian Bembry](#), 714-995-8211

Surf City

Third Tuesday, 6:30 p.m.

Superior Pool Products

10865 Kalama River, Fountain Valley

President: [Frank Malavar](#), 714-960-3558

Tustin/Irvine

Second Tuesday, 6:00 p.m.

PSOC Waterline Technologies

220 N. Santiago Street, Santa Ana

President: [Rich Foley](#), 714-974-1514

Yorba Linda

First Wednesday, 6:45 p.m.

(Please verify meeting time with president)

Lampost Pizza

21480 Yorba Linda Blvd #D, Yorba Linda

President: [David Hartson](#), 714-306-4864

REGION 6 Inland Empire, California

John Dixon, Director

951-316-1675

waterwhisperer1@verizon.net

Corona

Second Tuesday, 7:00 p.m.

Marie Callenders

160 E. Rincon St (at Main St), Corona

President: [Ernie Machado](#), 951-264-7464

Hemet

Third Wednesday, 6:00 p.m.

Megabite's Pizza

1153 S. State Street, Hemet

President: [Kenneth Campbell](#),

951-733-4330

Menifee Valley

First Wednesday 7:00 p.m.

My Buddies Pizza

2503 E. Lakeshore Drive #A Lake, Elsinore

President: [Renee Marier](#), 951-285-9672

Ontario/Rancho Cucamonga

Second Tuesday, 7:00 pm.

Location varies. Please contact chapter

president for more info.

President: [Ron Goodwin](#), 909-989-0406

Palm Desert

Third Thursday, 6:00 p.m./7:00 p.m.

(Please verify meeting time with president)

Sloan's, 81539 US Hwy 111, Indio

President: [Gary Kauber](#), 760-702-5865

Palm Springs

First Wednesday, 5:30 p.m.

Superior 5700 Indian Springs Rd.,

Palm Springs

President: [Jim Elliott](#), 760-413-0463

Redlands

Second Tuesday, 6:00 p.m.
Hickory Ranch
32971 Yucaipa Boulevard, Yucaipa
President: [Bill Brooks](#), 909-553-5780

Riverside

First Tuesday, 6:00 p.m.
Cask N Clever
1333 University Ave., Riverside
President: [Scott Zahn](#), 951-966-0592

Temecula/Murrietta

Third Wednesday, 7:00 p.m.
Pat & Oscar's
29375 Rancho California Road, Temecula
President: [Scott Peterson](#), 951-255-4175

REGION 7 San Diego County, California

[waterwatcher.org](#)
Michael Harris, Director
619-395-6700
mike@barrowpoolservice.com

Escondido

Third Wednesday, 6:30 p.m.
Call for location
President: [Bruce Smith](#), 760-741-3960

North County Coastal

Third Tuesday, 6:00 p.m.
Five Suits Brewing
2575 Pioneer Ave., Unit 104
Vista, CA 92081
President: [Aden Dunne](#), 760-801-5526

Rancho Del Mar

Quarterly on the 3rd Monday of
February, May, August and November
at 5:30pm
Filippi's Pizza Grotto
9969 Mira Mesa Blvd
San Diego, CA 92131
President: [Ed Finney](#), 858-750-8842

San Diego

Third Wednesday, 7:00 p.m.
Admiral Baker Clubhouse
2400 Admiral Baker Road, San Diego
President: [Ken Dirkse](#), 858-271-7665

San Diego East County

Third Tuesday, 6:00 p.m.
Superior Pool Products
1973 Friendship Drive, El Cajon
President: [Marc Impastato](#)
619-270-6617

San Diego Metro

Fourth Thursday, 6:00 p.m.
Sammy's Wood Fired Pizza
8555 Fletcher Pkwy, La Mesa
President: [Bert Vexland](#), 619-445-7887

REGION 8 Arizona and Nevada

Bill Goossen, Director
602-531-0035 | goosse-man@cox.net

East Valley (Phoenix)

Third Thursday, 6:00 p.m. MST
Pool & Electrical Products (PEP) Chandler
2900 S Gilbert Rd. Ste. 1
Chandler, AZ 85286
President: [Marc Cannon](#), 602-432-3371

North Phoenix

Third Tuesday, 6:00 p.m.
SCP
18201 N. 25th Avenue, Phoenix, AZ
President: [Stillman Brown](#), 623-229-3494

Southeast Valley

Second Thursday, 5:30 p.m.
Superior Pool Products
7330 S. Atwood, Mesa, AZ
President: [Jerry Handley](#), 480-440-2888

Tucson

Third Wednesday, 6:00 p.m. Social & 6:30
p.m. Call to Order
No meetings in August & December
Horizon Pool & Spa Parts
3120 East Medina Rd., Tucson, AZ
President: [Robert Lewis](#), 520-349-1111

West Valley

Third Wednesday, 6:00 p.m.
Cloud Supply
1100 N. Eliseo Felix Way, Avondale, AZ
President: [David Nielsen](#), 623-850-2924

Western Las Vegas

First Monday, 6:30 p.m.
Vietnam Vets Hall
6424 W. Cheyenne, Las Vegas, NV
President: [Linda Cross](#), 702-524-8453

REGION 9 Texas South

[ipssatexas.com](#)
Rick Beaubouef, Director
512-266-6592 | rick.easypools@gmail.com

Austin

First Tuesday, 6:30 p.m.
Red Robin
5601 Brodie Lane, Sunset Valley
President: [Mark Mastropietro](#)
512-550-1100

Clearlake

Fourth Tuesday, 7:00 p.m.
Rudy's BBQ
21361 Gulf Fwy Webster
President: [David Potts](#), 208-887-6486

Corpus Christi

First Thursday, 6:30 p.m.
SCP in Corpus Christi
President: [Michelle Wilkinson](#),
209-604-6460

Houston

Second Tuesday, 7:00 p.m.
Pappy's Café
12313 Katy Frwy., Houston
President: [David Queen](#), 281-807-5442

North Austin

Second Wednesday
Casa Chapala
9041 Research Blvd. #100, Austin
President: [Thomas Long](#), 512-293-7831

North Houston

Third Tuesday, 6:30 p.m.
La Cocina de Roberto
3126 Sawdust Road
Spring, TX 77373
President: [Stephen Titone](#),
281-773-8643

San Antonio

First Monday, 6:30 p.m.
Lorghorn Café
17625 Blanco Road, San Antonio
President: [Jorge Martinez](#), 210-549-7665

West Houston

First Tuesday, 7:00 p.m.
Spring Creek Barbeque
21000 Katy Freeway, Katy, Texas
President: [Bill Williams](#), 832-593-6299

REGION 10 Bay Area South, California

Gary Heath, Director
510-223-7537
gary@thepooldoctors.com

Fremont

Second Monday, via Zoom
All Members/Guests (Jan-July)
Board Officers (Aug-Dec)
PIN: 823 5019 6796

P/W: BluePools1

President: [Bruce Barrios](#), 510-750-2866

Marin and Sonoma County

Third Wednesday, 7:00 p.m.
Lucchesi Park Petaluma Community
Center 320 N. McDowell Blvd., Petaluma
President: [Darrell O'Neal](#), 707-217-1546

Mid-Peninsula

Last Tuesday, 7:00 p.m.
Superior Pool Products
2692 Middlefield Road, Redwood City
President: [Thurlough Cunningham](#)
650-868-9310

Monterey Coast

Fourth Wednesday, 7:00 p.m.
85 Neilson Street, Ste.201, Watsonville
President: [Terry Page](#), 831-297-2215

Santa Clara Valley

Third Thursday, 5:30 p.m.
SCP
2036 Martin Ave Santa Clara
President: [Fred Doering](#), 408-685-8078

Silicon Valley

Every Wednesday, 5:30 p.m.
Armadillo Willy's
1031 N. San Antonio Rd.
Los Altos, Ca. 94022
President: [David Guslani](#), 650-333-1351

Tri-Valley

Second Thursday, 6:00 p.m.
(No meetings in July and August)
Location varies. Please contact chapter
president for more info.
President: [Ken Yecny](#), 925-371-4521

REGION 11 Florida and Georgia

[ipssafl.com](#)
Todd Starnier, Director
941-915-2135 | tstarnier@tampabayrr.com

Gold Coast (Ft. Lauderdale area)

Second Tuesday, 6:30 p.m.
Wings Plus
9880 W. Sample Road, Coral Springs, FL
President: [Ana Labosky](#), 954-224-7733
[www.ipssagoldcoast.com](#)
President: [Ana Labosky](#)

North Georgia

First Monday, 7:00 p.m.
Please contact chapter president for
meeting location and directions.
President: TBD

Osceola (Orlando/Kissimmee)

Second Wednesday, 6:30 p.m.
Fat Boy's Restaurant
2512 13th Street, St. Cloud, FL
President: [Diane Fowler](#), 407-460-6680

Port Charlotte

Fourth Monday, 6:30 p.m.
Buffalo Wings & Rings
1081 W. Price Blvd., North Port, FL
President: [Raymond Kurilavicius](#),
941-743-2010

Sarasota (Sarasota and Manatee Counties)

First Tuesday, 6:30 p.m.
Gecko's Grill & Pub
351 N Cattleman Rd. North of Fruitville
Rd., Sarasota, FL
President: [Marvin McMahan](#), 941-356-7751

Treasure Coast

Fourth Tuesday, 7:00 p.m.
Duffy's Sports Bar
6431 SE Federal Hwy Stuart, FL
President: [Paulette Hester](#), 772-485-5489

REGION 12 Texas North

[ipssatexas.com](#)
Casey Gardener, Director
469-835-5674
service@noworriespoolcare.com

Dallas

Fourth Tuesday, 5:30 p.m.
Senor Chachote Cantina & Grill
7602 N Jupiter Rd, Garland
President: [Travis Coleman](#), 214-799-7739

Fort Worth

Third Tuesday, 6:30 p.m.
La Playa Maya Restaurant
1540 N Main Street, Fort Worth
President: [Tina Carmona](#), 817-991-0555

Mid-Cities DFW

First Monday, 6:30 p.m.
Sports Garden DFW
1850 E. Belt Line Rd, Coppell
President: [Stephanie Gardner](#),
469-835-5674

Tarrant County

First Tuesday, 7:00 p.m.
El Chico's Cafe
7621 Baker Blvd., Richland Hills
President: [Jason Wilson](#), 817-366-1200

Waxahachie

Second Wednesday, 7:00 a.m.
Denny's
408 Westchase Drive, Grand Prairie
President: [Bryan Courville](#), 817-308-9874



ASSOCIATION INFORMATION

Rose Smoot
Executive Director
Phone: 888-360-9505 x2
Fax: 888-368-0432
rose@ipssa.com; info@ipssa.com
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Sacramento, CA 95865

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Alison Thompson
Membership Assistant
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INSURANCE BILLING

Phone: 844-574-1134
Fax: 888-811-4502
insurance@cramercpa.com
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Rocklin, CA 95677

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 Ray Arouesty: ray.arouesty@hubinternational.com
 General information and certificate requests: 800-833-3433
 Insurance billing information: 844-574-1134
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 623-582-2400
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 Paul Matthews: pmatthews@bio-dex.com
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Jim Kolchin: jim@iwallet.com
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Jack Beane: jack@jacksmagic.com
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Kent Westfall, Owner/Pool Inspector:
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cpsa.phta.org
602-619-2129
Susan Kregar: skregar@phta.org
The Pool & Hot Tub Alliance protects and advances the common interests of the industry by providing education, advocacy, standards development, research, and market growth to increase our members' professionalism, knowledge and profitability.

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PIE has well earned its reputation over the past 34 years, with more than 130 exhibitors per show and attendance ranging as high as 5 to 6 thousand, many of the attendees and exhibitors from those shows are still showing up in Monterey for their "Education Vacation".

Pool & Spa Apprenticeship and Training Committee (PSATC)
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