THE IPSSAN

May 2023 Volume MMXXIII, Issue 5 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.

Servicing Variable-Speed Pumps for Optimal Performance By Jimmy Miller, Pentair



AS PLANNING FOR THE

2023 pool season begins, it is a good time to brush up on the fundamentals. Pool professionals face a rapidly evolving industry, and this includes a shift in variablespeed pump (VSP) technology. By preparing for servicing variable-speed pumps now, service professionals can feel confident in tackling common challenges that may arise in the upcoming season.

MAINTAINING SAFETY

Whenever there is a concern about equipment, worker and customer safety is top priority. First, a thorough inspection of the pool pump containment area and any exposed plumbing should be completed. Service professionals should always locate the main electrical circuit breaker panel to identify and confirm which breaker is designated for the pool pump before working on the equipment. A system should not be on when checking pipes or opening a pump, and the circuit breaker should be flipped so no power is going to the system before attempting any maintenance.

OPTIMIZING FLOW

Single-speed pumps are less energy efficient than variablespeed pumps. When servicing a pool with the latter, the first thing to consider is the flow rate. Flow rate, or the volume of water passing through the pump, is a critical calculation step to determine the proper water turnover rate to maintain clarity and sanitary conditions. The flow rate should also be tested and adjusted regularly to maintain pool conditions. Emptying debris, leaves, and seeds from skimmer baskets regularly can allow pumps to work more efficiently.



Emptying debris, leaves, and seeds from skimmer baskets regularly can allow pumps to work more efficiently.

Variable-speed pumps are designed to run at the lowest flow rate necessary to maintain peak performance while saving energy. While every pool is different, variable-speed pumps do not need to run at full speed or a high flow rate all the time to do their job effectively—in fact, it is often the opposite.

A pump must accomplish two primary goals, the **Continued on page 8**



COMMUNITY • EDUCATION • SUPPORT IPSSA: Knowledge Through Community

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Hello IPSSA Nation!

AS I AM PREPARING FOR MY QUARTERLY Region 11 meeting, I was reflecting on the friendships I have with past and present BORD members, with my Region board and with members in my Chapter. In my 30+ years in the pool industry, I have realized how important friends with others in the pool industry are in all aspects of my business and personal life.

Early on I at first was very competitive with other service techs in my area. My wife once mentioned to me not to worry about others, to take care of your "house". Meaning my customers and that there are enough pools to go around. With her comment I realized that I needed to adjust my attitude, to learn from other service techs, those with more experience in order to continue to grow my in the pool industry and my business. Often these friendships have even helped remain sane during those tough weeks when nothing seems to be going right. For instance, you're behind on your schedule, customers are complaining and so on. We have all had those weeks. Then I talk with another service tech who shares the same or bigger issues and I leave the conversation not feeling so bad about my week. Now after 30+ years I am one of those experienced guys that members

Things to do in May

- National Water Safety Month Promote Water Safety and Drowning Prevention
- Algae Control
 Specialty Chemical
- Maintenance • Change Hoses on Liquid
- Chlorine Feeders
- Truck Maintenance
- Evaluation of Fuel Consumption Needs

from my Chapter come to with "how to" questions or with their tough week stories. Those tough week stories lead to talking about other topics of your business, about your family or Lightning hockey. The next thing you know you forget about the tough week; you are enjoying the conversation and the friendships you are building. IPSSA is more than just an association to provide insurance, education, etc., it is also a venue for camaraderie, the ability to build friendships with other members and the various business reps in the pool industry. If you are not involved with your Chapter, you are missing out on something that is more than you or vour business.

As I finish this article, I must remind you and mention the membership drive of signing up five new members per month per Region. I would love to hear how your Chapter and Region are doing. That's all for now. Remember to wear your sunscreen and have fun!

Best,

Todd Starner



The IPSSAN

Associate Management Team

ROSE SMOOT IOM, CAE Executive Director

rose@ipssa.com

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 Resource Manager 888-360-9505 x2

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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

MICHELLE HARVEY Project Associate and IPSSAN Editor

michelle@ipssa.com Duties: Associate member relations, IPSSAN content, IPSSAN advertisements, social media posts, website updates

Member Services & Finance Team

FRANK MCDONALD Finance Director

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Duties: Oversees day-to-day membership transactions and accounting. Prepares IPSSA financial reports, chapter shares and census report

ALISON THOMPSON Membership Assistant Phone: 888-360-9505 x1 Fax: 888-368-0432

memberservices@ipssa.com Duties: Membership applications, transfers, cancellations, change of address or contact information, auto-pay sign up or one-time payments, chapter rosters and chapter officer updates

ACCOUNTING

888-360-9505 x1 accounting@ipssa.com Duties: Invoicing members, process payments, processes (financial) tax data, Swim Fund, track members that are water chemistry certified

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HEY RAY!

Ray Arouesty, Senior Vice President of Arrow Insurance Service, a division of HUB International Insurance Services, answers commonly asked insurance and liability related questions from pool service professionals.

OUESTION:

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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.



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.

The IPSSAN

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HIGHEST IN CLASS

Servicing Variable-Speed Pumps Continued from front page

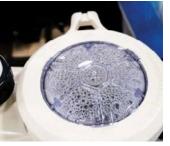
circulation of chemicals and the skimming of debris. The pump can run at a low flow rate (or speed) for a lengthy period to circulate the chemicals and turn over the water throughout the day. While the low speed is effective at circulating chemicals efficiently, it would not do a sufficient job skimming the pool. As such, the pump will need to be programmed to run at a higher flow rate for short periods throughout the day to generate more surface water movement from the return jets and allow the skimmers to collect floating debris from the surface. Finding the optimal flow rate is both an art and a science and should be considered carefully when servicing a pool.

TACKLING DEBRIS

If the pump's speed and flow rate have been adjusted but a customer is still experiencing a lot of debris in their pool, the return jets should be checked. Return jets, sometimes called eyeballs, need to be arranged near the surface of the water to optimize circulation. Improved circulation at the surface allows leaves and debris to be skimmed before they sink.

Seasonally, especially around the end of summer into fall, pool owners start experiencing more leaves, seeds, acorns, and debris in their pools. This debris has the potential to fill a skimmer basket quickly. It is important to check the basket as often as possible for blockages as well. Blockages add friction to the pool system, and added friction means higher energy usage and costs. Keeping baskets empty allows pumps to work more efficiently to get the job done.

Watching for water leaks Watching for and mitigating leaks is crucial to maintaining a variable-speed pump for years to come. Water leaks can be caused by a variety of factors, such as putting extra stress on a pipe when servicing the filter, accidentally leaning against a piece of plumbing, and even aged O-rings. In areas with changing temperatures, not draining the pipes effectively and subsequent freezing and thawing can also create leaks.



Unlike single-speed pumps, pool servicers may see air near the basket of variable-speed pumps; this is normal and does not necessarily hint at an air leak. The pumps pictured here have an acceptable amount of visible air inside the basket area.

If a pump is experiencing a water leak, it is helpful to slow down or stop it to see if the leak can be traced to its origin. Often water leaks leave trace mineral trails which can be a helpful clue to follow. Another common source of a water leak is the pump's mechanical seal; if it is worn out, a leak may appear in the middle of the pump and likely in front of the motor. However, if the mechanical seal is intact and the source of the leak cannot be determined, additional parts to investigate are the filter band clamp and the filter O-ring.



The impeller, which is located behind the skimmer basket, can be clogged by debris. Listen for noises while servicing the pump, as these may hint at a clog. For improved performance, keep the pump strainer basket clean.

RESOLVING AIR LEAKS

An air leak is just as concerning as a water leak. Professionals

may notice air in the strainer basket on the suction side of the pump. On single-speed pumps, the basket area would generally be full of water. Since variable-speed pumps run at lower speeds and flow rates, one may see air in the basket area, however, the air is not something to be alarmed by, nor is it a sign of a leak as it would have been with single-speed pumps. Air in the basket area generally means the amount of water going out of the pump and the amount of water coming in have reached an equilibrium.

So, how can one be sure there is an air leak? Running a quick-clean cycle is a good test. Quick-clean cycles run the pump at high speed. If, while the program is running, the strainer basket fills up with water, a professional can be confident the air was sucked out and there is no leak. However, when running at a high speed, air bubbles appear and the lid fills with air, it may indicate an air leak. Another simple way to test is by running a garden hose along



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the plumbing leading into the pump to see if it changes what is going on in the viewport.

Air leaks can be caused by a variety of factors. The ground shifting during changes in the seasons, fluctuating frost lines, or even ultraviolet (UV) rays that break down the components in the polyvinyl chloride (PVC) can all lead to an air leak. A cracked, stretched, or aged O-ring is also a common cause of an air leak and is often a relatively cheap fix. Replacing the O-ring, cleaning the groove it sits in, and applying a new coat of lubricant can often do the trick.

If the O-rings appear to be intact but an air leak remains, check the pump's PVC plumbing. Over time and when exposed to the elements, the epoxy seal can become brittle and less effective. If an air leak stems from the plumbing, caulk can patch the crack, or the plumbing may need to be re-glued.

While leaks happen, steps can be taken to help avoid them. For example, protecting pumps from the heat by ensuring they are shaded from the sun and have ample ventilation. They should also always be protected from dirt and moisture.



Proper service and maintenance of variable-speed pumps can help protect longevity and mitigate the risk of common problems. Understanding variable-speed pumps can help pool service professionals feel confident in tackling common challenges.

INSPECTING THE IMPELLER

The impeller is the heart of a pool pump and allows it to do its job effectively. An impeller

is attached to the motor shaft and spins the water inside the pump. As the impeller spins, it energizes the water, increases the pressure, and makes the water move.

Keeping the pump strainer basket clean is critical to the performance of an impeller. If the basket is not cleaned properly and is full of fine debris such as sand, it can decrease the performance and even clog the impeller so it cannot start. In addition to checking the basket, service professionals should note any noises from the pump. A noise may indicate debris is stuck in the impeller.

Fortunately, modern variable speed technology, available with select pumps, allows professionals to gather feedback on the equipment in real-time via an app which helps professionals diagnose and fix problems more effectively. For instance, if a pump sends an alarm that the impeller cannot turn, the pump will have to be taken apart and examined

more closely.

While examining the pump, the mechanical seal between the impeller and the motor should be checked, as it can be a common source of water leaks. If leaking, water would likely show up as a puddle forming in the middle of the pump, just in front of the motor. While a mechanical seal typically has a life expectancy of a few years and may wear out, if it is still intact and the impeller is still not working, one can also check the clearance between the impeller and the diffuser for possible debris buildup in the tight channel.

MITIGATING MECHANICAL ISSUES

The capacitor was a chief source of mechanical issues in single-speed pumps with induction motors. Now, however, variable-speed pumps are run with a drive on top as a mechanical inverter. While drives tend to be trickier to troubleshoot, there are things a professional should check for if experiencing a mechanical issue and an unresponsive drive.

If a drive is not working, always check the power first. If the power is on and the pump offers IoT (Internet of Things) connectivity, check to see if it is connected to the internet. Today, many pumps include technological advances that allow them to be controlled by an app, making remote monitoring possible and troubleshooting more streamlined.



Modern variable-speed app technology empowers professionals to gather feedback, diagnose issues, and address problems more effectively.

While servicing a drive is notoriously complex, a pump that connects with an app allows a professional to diagnose a problem more easily. Select apps will alert a professional to alarm codes which can help them pinpoint the issue. If given an alarm code, a pool professional should reference the manufacturer's website or the product manual to determine the appropriate next steps.

As the industry continues to evolve and products become more connected, professionals may be able to remotely receive alerts notifying them of issues with the equipment at their customers' pools. This real-time monitoring can help service professionals proactively address problems before they escalate. Depending on the alarm code, they may even be able to bring a part with them that could fix the problem on the first trip—helping professionals accomplish tasks in just one visit, rather than several, further saving time and resources.

OPERATING OPTIMALLY

Pool professionals must train the homeowner on the capabilities, functions, and maintenance needs of their variable-speed pump. While it can feel counterintuitive to some pool owners, operating the variable-speed pump at the slowest speed and flow rate possible to get the job done right is key to achieving clearer water. To ensure energy savings are actualized, the homeowner should understand that lower speeds and flow rates will provide adequate filtration for their pool.

By operating optimally, the temperature of the drive will decrease, allowing the electronic components of the pump to last longer. Additionally, operating a pump at the lowest speed and flow settings for the pool causes less mechanical wear to the machine.

By diligently maintaining variable-speed pumps, a pool professional can help mitigate common challenges before they arise. Not only can proper service and maintenance protect the longevity of the equipment, but it can also help save pool professionals and their customers time and money over time.

Article first published by Pool & Spa Marketing on January 19, 2023

ABOUT THE AUTHOR

Jimmy Miller is the senior engineering technical lead in new product development specializing in pool pumps at Pentair. He has been with the company for more than 16 years. Miller started in the pool industry in 2005, working in the new product development department on variable-speed pool pumps.

special Edition Meet the IPSSA National Board



RYAN RUMINSON REGION 1 DIRECTOR NORTHERN CALIFORNIA

It all started in 2013. My neighbor asked me to help him with filter cleans and worked out perfectly since my job was at Applebee's at night bartending at the time. Two months later we started Blue Curl Pool Service and I graduated with a BS degree in Business Management. My wife Heather has helped our business grow a lot through the years doing filter cleans and handling routes. We now have eight kids, five of which we adopted, which means Heather is extremely busy with the children and is unable to help out in the field as much as she would like to. We love doing what we do and enjoy being a part of IPSSA. The IPSSA community has given us a wealth of knowledge and comradery.

Ryan currently serves on the IPSSA Finance Committee and is Co-Chair of the IPSSA Marketing and Outreach Committee. Region 1 includes the Capital Valley, Delta, East Bay, East Contra Costa, El Dorado, Elk Grove, Gold Country, Modesto Central Valley, Sacramento City, Tracy and West Placer chapters.

BEAU BRAISHER

REGION 2 DIRECTOR CENTRAL CALIFORNIA

I have chosen not to write a long Bio on myself, because I feel it's not about me



and my 20 + years in the swimming pool industry. My focus is on YOU, our current IPSSA members and providing you with any help you may need. My other focus is growing our current membership and guiding them to be productive IPSSA members. I thank you for taking the time to read this and I hope that I'm able to represent Region 2 in a professional and productive manner.

Region 2 includes the Bakersfield, Central Coast, Conejo, Conejo Valley, Fresno, Santa Barbara, Ventura and Visalia chapters.



ERIC NIELSON REGION 3 DIRECTOR

NORTH LOS ANGELES COUNTY Eric was born in a small town in central Utah in 1959. He moved with his family in 1963 to the San Fernando Valley, where his father was an aerospace engineer working on the Gemini and Apollo programs. While growing up in the "valley," he spent his summers on the ranch in Utah raising Alfalfa, Cattle, Sheep, and Turkeys. There he developed his love for the outdoors, hunting, and fishing which are continued

passions to this day. In 1974 started helping a neighbor who was a pool man with a route in Beverly Hills and has continued, for the most part, in the pool business since then. Starting Willow Creek Pools, a service, and construction company, in 1982, it has focused on high-end residential and commercial pools in the Beverly Hills, Bel-Air, and Malibu areas. He also owned a wholesale pool distribution house for several years and sold it in 2015. He joined IPSSA in 1983 and has held multiple positions, including chapter president, and serving on the BORD from 2002-2004, serving for a year as the IPSSA president in 2003. He has served on many boards in the industry for decades, including positions on the CPSA Board and as a Director of the Western Pool and Spa Show. Eric was honored to receive the Terry Cowles award in recognition of his service to the industry. His charity work is not limited to the pool industry and includes serving as a Boy Scout Scoutmaster for 14 years and leading a Hollywood Celebrity event that raised money for the Wounded Warrior Project. He and his wife Patty recently celebrated their 40th wedding anniversary, and he credits her with any accomplishment he has ever had. They have two children and four grandchildren who are the joys of their lives. Eric has always loved the ideals of what IPSSA stands for and hopes to help it grow and prosper into the future.

Eric currently serves on the IPSSA Education Committee. Region 3 includes the Antelope, Diamond Bar, Foothill, San Fernando Metro, San Fernando Valley, San Gabriel Valley and Santa Clarita Valley chapters.



RICK MORRIS REGION 4 DIRECTOR SOUTH LOS ANGELES COUNTY

Rick was born and raised in Southern California. He and his wife Marsha of 29 vears reside in his hometown of Gardena and have three children together - Brendon, Ryan, and Kayla. He has served over 20 years as a leader and director on a church board for a local kids' club. Rick has always enjoyed working with the youth. Rick worked in the sales field for several years and after downsizing and reorganizing a few times, he went into the pool service business by purchasing 40 pools in 2005. He joined IPSSA on his one-year work anniversary date, became President of Southbay chapter after 4 years in 2009-2013 then again as Chapter President from 2019 to current. He also concurrently served as Secretary / Treasurer for Region 4 from 2019 to 2022. He holds a contractor license C-61/D35, a L.A. County health Dept License and is CPO Certified. Rick stated, "This has truly been a satisfying career in growing and learning the pool trade with other great guys. I've enjoyed taking care of our clients, whether commercial



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Meet the IPSSA National Board Continued from page 10

or residential and having the freedom and time to spend helping others grow in their business as well."

Rick currently serves on the IPSSA Membership Committee. Region 4 includes Central Los Angeles, East Long Beach, South Bay, West Side and Whittier chapters.



MICHAEL DENHAM REGION 5 DIRECTOR AND

I**PSSA BORD CFO** ORANGE COUNTY

Mike and his wife Patti live in Huntington Beach where Mike started his business in 1986, which is the same year he joined IPSSA. Mike started volunteering at the chapter level as Treasurer, then eventually became Chapter President. Mike got involved at the regional level where he helped establish and became the first Treasurer of Region 5. In the years 2000 to 2002, he served on the BORD as Regional Director. While on the BORD he was Chairman of Associate Members and CFO. In 2002 Mike got involved with the Region 5 HOTT Show and has served as HOTT Show Chairman for the last sixteen years. He joined the BORD twenty years later and looks forward to helping solve the issues and challenges ahead.

Mike is the IPSSA CFO and serves on the Executive and Finance Committees. Region 5 includes the Anaheim, Central Orange County, Dana Point, Mission Viejo, Orange Coast, Orange County Pool Professionals, Southwest, Surf City, Tustin/Irvine, and Yorba Linda chapters.

SCOTT PETERSON REGION 6 DIRECTOR

INLAND EMPIRE Scott serves on the IPSSA Marketing & Outreach Committee. Region 6 includes the Corona, Hemet, Menifee Valley, Ontario/Rancho Cucamonga, Palm Desert, Palm Springs, Redlands, Riverside and Temecula/Murrietta chapters.



MICHAEL HARRIS REGION 7 DIRECTOR SAN DIEGO COUNTY

Michael spent most of his childhood growing up in San Diego, CA. After graduating from Dartmouth College in 1983, he moved back to San Diego and worked in medical manufacturing companies for over 15 years in Quality Assurance and Engineering throughout San Diego and Tijuana, Mexico. After surviving his company's third merger acquisition, Michael decided to make a career change to the financial industry. Though it was rewarding helping people get out of debt, invest, and properly ensure families, he continued to search for other opportunities to create and own his own business. In the early 2000s, Michael began his adventure in the pool industry by helping his father-in- law who is a 30-year veteran of

the industry. As his father in-law's health declined, he continued to help while he acquired and built his own business. Soon, the pool industry became his primary focus and business of choice, serving both commercial and residential customers. He incorporated his business in 2015. He currently holds a C-61/D35 State Contractors license and is a Certified Pool Operator. Michael and his wife of 37 years, Tammy, have a son, Jacob, and daughter, Alexandra, who are both college graduates. Michael became an IPSSA member in 2009. He has served on the San Diego Chapter Board as a Vice President, and President.

Michael is the Chair of the IPSSA Membership Program Committee and a member of the Education Committee. Region 7 includes the Escondido, North County Coastal, Rancho Del Mar, San Diego, San Diego East County and San Diego Metro chapters.



LINDA CROSS REGION 8 DIRECTOR ARIZONA/NEVADA

It was 2005 and I was 55 years old in a high-pressure corporate job. My husband was in the same situation, and we found out that our daughter in Scotland is pregnant with our first grandchild. We know our corporate jobs wouldn't allow enough time to travel to Scotland, so we started looking for an early retirement and

needed some extra income until we could receive Social Security and Medicare. My brother-inlaw- was in the pool business and President of the Capital Valley IPSSA. He convinced us to start our own pool tile cleaning business, which would allow some flexibility for travel. We moved from Alabama to Las Vegas, after determining a high volume of pools with calcium caked on tiles, and a low volume of businesses removing it. After sitting at a desk for 30 years, it was wonderful having a job outside in the fresh air. I also enjoyed my time interacting with customers.

The tile business fizzled during the Great Recession (2009) and we were faced with adding pool service, even though that would mean a little less time off for traveling to Scotland. I concentrated on pool service while my husband concentrated on tile cleaning. I became passionate about water chemistry, and read everything I could find about it, as well as took courses such as CPO.

I joined the Western Las Vegas chapter of IPSSA in 2011. During those 12 years, I have been President for eight years and Treasurer for two years. As President, I began shifting our meeting from vendor sales visits to vendors teaching us something, such as how to troubleshoot their product, or a National Plasterer Council member discussing aspects of pool start-ups or having a CPR class for the members.

This is my first year of my first term as Region 8 Director. I hope to continue to focus on Education, as well as the many other aspects and goals of the BORD.

Linda serves on the IPSSA Continued on page 14



Meet the IPSSA National Board Continued from page 12

Education Committee. Region 8 includes the East Valley, North Phoenix, Southeast Valley, Tucson, West Valley and Western Las Vegas chapters.



RICK BEAUBOUEF REGION 9 DIRECTOR AND IPSSA BORD ASSISTANT CFO

TEXAS SOUTH Rick Beaubouef was born in Houston, TX in 1977, but moved to California with his family in 1987. He's named after his father, who was a first generation poolman. Rick started working in the pool industry with his dad when he was 8 years old and started his first swimming pool company in 1998 in Austin, TX. Rick has been a member of IPSSA since 1998 and has served more than a decade in different chapter board positions for Austin, and North Austin Chapters. Rick also served as an Executive Board member for the Aquatic Professionals Education Council, until it was changed to the Texas Pool and Spa Coalition. Rick is father to two sons, Alex and Skyler, who he hopes to raise as 3rd generation poolmen. Being a native Texan, with California roots, Rick has a diverse perspective of the swimming pool industry and the challenges we face. Rick's motto is "Improve the industry, to improve our businesses, to improve our quality of life".

Rick is the IPSSA BORD Assistant CFO, serves on the Executive Committee, Finance Committee and the Marketing & Outreach Committee. Region 9 includes the Austin, Clearlake, Corpus Christi, Hill Country, Houston, North Austin, North Houston, San Antonio and West Houston chapters.



GARY HEATH

REGION 10 DIRECTOR AND IPSSA BORD SECRETARY NORTHERN CALIFORNIA: SAN FRANCISCO/SAN JOSE BAY AREA Garv was born and raised in California's East Bay; his family has deep roots in the area. After graduating from high school, he attended Sacramento State University where he received a BS in Business Administration. He and his wife Kelly have a daughter and live in Danville. Gary and his wife Kelly did not grow up in the pool business, they bought The Pool Doctor in 2010. After long successful careers, Gary in the Heavy Construction and Mining Equipment Industry, and Kelly in Pharmaceutical sales they decided to quit Corporate America and work for themselves. He currently holds a C61/D35 Contactors License and is CPO Certified. The Pool Doctor has been in business since 1956, he and Kelly are the fourth owners of the 65-year-old company. They cover the East Bay area and service hundreds of residential and commercial pools. In his spare time Gary loves to hunt and fish, and wishes he had more time for golf and has a vacation home in Twain Harte.

Gary has belonged to both the East Bay and then the Tri Valley chapters of IPSSA. He served as president of Tri Valley for several years prior to being elected to the BORD. He also has served on multiple HOA boards.

Gary is the IPSSA BORD Secretary and Chair of the IPSSA Marketing & Outreach Committee. Region 10 includes the Fremont, Mid-Peninsula, Monterey Coast, Marin/Sonoma County, Santa Clara Valley, Silicon Valley and Tri-Valley chapters.



TODD STARNER

REGION 11 DIRECTOR AND IPSSA PRESIDENT

(FLORIDA/GEORGIA) Todd was born in Parkridge, Illinois and has lived in Bradenton, Florida since 1970. Todd and his wife, Tina of 30 years, and have a very

Continued on page 16





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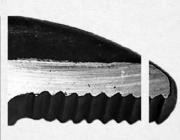
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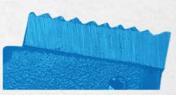
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Meet the IPSSA National Board Continued from page 14

accomplished daughter, Isabelle. Isabelle recently graduated from the University of South Florida with her master's degree in Higher Education, has taken a position as advisor of Student Government with Florida Polytechnic University and is engaged to be married in 2023. Todd started working with a pool company what was to be only a summer job while he was in college. That summer job turned into a full-time job, in a few short years he became the maintenance manager and in July of 1994 purchased that company and started his own business. Todd holds the State of Florida's RP, CPC and CPO contractor's licenses.

Todd joined IPSSA in 2006 after meeting Jim Romanowski. Jim was scouting Florida to expand IPSSA and Todd was looking for an alternative to FSPA which he is still a member of. Todd was looking for an organization that was only pool service orientated. FSPA is focused on both pool service and pool construction. IPSSA's national presence appealed to him and the IPSSA insurance was a great perk as well. Todd immediately became involved in IPSSA and helped formed the second IPSSA Chapter in Florida, the Sarasota Chapter. While Florida was a part of Region 9, Todd was the Florida Liaison, never missed a regional meeting and it was his personal mission to birth Region 11. Due to Todd's dedication, he won the Person of the Year Award for Region 9 in 2010. In 2012 Region 11 was approved, Todd became the first Director of Region 11 and served as the BORD's expansion chair. Todd served as the BORD's Vice President (2013-2014) and two terms as

President (2014 – 2015, 2015-2106). Todd finished his first term on the BORD in 2016 and continued to stay active with the Sarasota Chapter as its Chapter President. Todd was the 2019 Terry Cowles Award winner. In June 2020 Todd was once again asked to serve as Region 11's Director when the previous Director resigned suddenly. Todd quickly realized there is a heightened need to represent Region 11 during the changes IPSSA is going through and to also represent the many members of IPSSA that are "one-polers".

Todd has been the IPSSA BORD President since 2022 and serves on all IPSSA committees. Region 11 includes the Gold Coast, Osceola, Port Charlotte, Sarasota and Treasure Coast chapters.

CASEY GARDNER

REGION 12 DIRECTOR AND IPSSA VICE-PRESIDENT (TEXAS NORTH)

Casey is the IPSSA BORD Vice-President, Chair of the Education Committee, and serves on the Executive Committee. Region 12 includes the Dallas, Fort Worth, Mid-Cites, Rockwall, Tarrant County, and Waxahachie chapters. ■



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Cloudy Pool Water 101 Understanding the Causes and Solutions for Uninviting Water By Emily Johnson

CLOUDY WATER PLAGUES

both pool owners and veteran pool operators. It can dampen the excitement felt at spring openings or disappoint a pool owner who has just returned home from an extended period away. It can appear just before algae blooms or appear a few days after a pool party or major storm. Not only is cloudy water uninviting, but it may also be a symptom of important issues that warrant investigation. Cloudy water can interfere with visibility. Swimmers using a pool in which key features, lane dividers, or drains are obscured by clouding can also be physically harmful.

For the healthiest swimming conditions, being on top of the water balance, sanitizer, routine cleaning, and oxidizing schedule will help pool owners prevent costly and frustrating remediations. With the 2023 season drawing near, the following are a few strategies to consider for preventing and treating cloudy water.

DEFINING CLOUDY WATER

The pool industry uses the term turbidity to quantify cloudiness by analyzing the presence of suspended particles in water, in Nephelometric Turbidity Units (NTU). The Pool & Hot Tub Alliance's (PHTA's) Pool & Spa Operator Handbook advises pool water turbidity to be kept below one NTU during peak pool season, and for interventions to be able to reduce it below 0.5 NTU in eight hours. For pool operators or owners without instruments to test turbidity, simply inspect the pool and its surfaces while standing on the pool deck. The pool's steps, deep end, and main drain should be clearly visible. Being unable to see these structures can be hazardous to the safety of users.

UNDERSTANDING THE CAUSE

Diagnosing the cause will solve the problem easier and normal operations can return. Any visible debris should be removed from the water and skimmers. to allow for better circulation patterns. This will also prevent organic stains from appearing and remove unnecessary distractions from the sanitizer. Testing the water can point towards any problems with chemical imbalance, low sanitizer residuals, or oxidizer demands. Even if the issue is related to one of these problems, understanding the health and functionality of the circulation and filtration system is crucial.

ADEQUATE CIRCULATION AND FILTRATION MECHANISMS

In a pool, keeping the water moving is important for the distribution of chemicals and removal of contaminants. The bulk of windborne debris, algae spores, and swimmer waste accumulate along the surface where the disinfectant residual is often at its lowest. This water passes through the skimmer to the filter where undissolved particles are removed. The water may then pass through any chemical or sanitizer feeders where the sanitizer is added before being reintroduced to the pool.

The filtration system should allow for multiple complete turnovers of the water. The flow rate should be adjusted to allow for one turnover every six to eight hours. This allows up to three to four turnovers over a 24-hour period. For pool owners concerned with energy efficiency, a variable-speed pump (VSP) adjusted to a low speed during the night can keep the water moving and filtering.

FILTER MAINTENANCE

An important, yet, neglected routine is filter maintenance. Each pool season should begin with a clean filter and periodic assessments of its performance throughout the season. Too often, filters will only be cleaned upon encountering cloudy water. Cloudy water, not caused by inadequate sanitization or improper balance, might be due to an underperforming or overly soiled filter. A quick examination of the filter pressure gauge reading above 20 PSI or low flow coming from the returns can be indicators of a filter needing service.

Simply rinsing a cartridge filter or backwashing a sand filter may leave behind more complex organic or mineral waste products. When to clean them can often depend on the type of filter or certain treatments that have been performed recently. Each filter type comes with unique challenges. Sand filters struggle more with tinier particles and might need additional help with filter aids such as charged cellulose or diatomaceous earth (DE) that can sit atop the sand bed to better capture debris. This filter media may also develop channels or cracks

running through the sand bed which will allow unfiltered water to pass through.

Cartridge filters might be able to capture smaller debris compared to sand but may need more cleaning or replacement after significant events. Dead algae and clarifier treatments often clog up these filters quickly. It is a good practice to have a second set of fresh cartridges to replace soiled ones while they are being cleaned.

Choosing the right type of cleaner will help when rinsing is not enough. If the buildup is mostly comprised of waste from heavy use such as organic material or body oils, an alkaline formula with detergents and surfactants is preferred. Accumulated contaminants can also be region-specific. For pools in a calcium-rich water region or with a higher concentration of metals will need an acidic cleaner to neutralize these minerals. Keeping the filter healthy will go a long way in maintaining clean and clear water. If the problem is not alleviated by a clean filter, the issue might be mechanical due to cracked laterals or manifolds.

COAGULANTS AND FLOCCULANTS

Cloudy water in pools forms due to the accumulation of microscopic contaminants too small for the filter to collect. In recreational water, these contaminants usually have negative charges. Debris remains in colloidal suspension where the similar charges combined repel each other so the particulates cannot settle.

Particulates will either need to be broken down by oxidizers, bridged with cationic coagulants for the filter to remove, or heavy enough to drop to the pool floor with flocculants. Coagulants, since they are slow acting, should be used as soon as water begins to haze, or even in regular maintenance to stop problems from forming. A flocculant, which can only be used in pools that allow vacuuming to waste, is meant to treat extreme cloudiness. They are effective in getting rid of dead algae following algicidal treatments. Water restoration is quicker, but vacuuming is necessary to remove material from the bottom. This keeps flocculant usage limited to sand or some DE filters if the manufacturer recommends.

Coagulants can work wonders for both preventive and curative treatments, but often take time to improve. In many instances, the mechanisms of coagulants and flocculants occur in succession. Coagulation neutralizes the negative charge on contaminants to bind them together into small clumps that are more manageable for the filter, whereas flocculation binds them into heavier and larger clumps that will eventually separate from the water.

Although these particles are larger, it is still unlikely to see them with the naked eye. What will be evident is clearer water surrounding the weighted particles. This reveals the contaminant charge has been neutralized for the flocculant mechanism to take place and drop out the particulates. Aluminum-based salts are high performing flocculants and clarifiers that function under most chemical balances. Some commercial flocculant materials may require more dosages and pH alterations.

Coagulants are commercialized in two forms: natural and synthetic. Both have similar and efficient mechanisms, but many pool operators might prefer one over the other. For a more natural route, chitosan is an option. In addition to the aquatics industry, it is used by many others including pharmaceutical, biochemical, cosmetic, and water treatment.

Chitosan is produced by extracting chitin, the supportive

material of crustaceans recycled from the food preparation industry. Through some chemical processing, this biodegradable polysaccharide chain of glucosamine and a positively charged amino group becomes chitosan. It has a carbohydrate structure not unlike cellulose. It floats along the top few layers of the water where it seeks attractive contaminants like oils, metals, or dirt to neutralize their charges and coagulate them into larger clumps for better filtration. Unlike some remedial products, chitosan will function regardless of the water chemistry and will not be impacted by sanitizer residual.

Synthetic alternatives to chitosan are often comprised of ammonium co-polymers. Their long chains stick to and bridge together entrapped particles, enlarging them for the filter to hold onto easier. Like chitosan, they also function under a wide range of pH environments. Maintenance technicians should exercise caution when dosing with these products as an overcorrection can cause the negatively charged material to be coated in a shell of positively charged material, resulting in a situation resembling the original problem.

Similarly charged particles will not settle out or reach the filter. The now positively charged coating makes it harder to remove. For some highpowered clarifiers, synthetic polymers can be paired with additional clarifiers. These materials work together in more concentrated dosages resulting in a faster response. They are sometimes available in dosages better suited for weekly maintenance. Some products are even designed for use when a stronger trouble-shooter may be needed, such as spring opening.

CONCLUSION

Deciding how to treat cloudy water can be frustrating,

but timely intervention can help avoid costly treatment plans. Prevention will always be key. Weekly activities such as brushing, remaining on top of sanitization, and adequate circulation may seem inconvenient, but it will work wonders. It is much like housekeeping. A little tidying each day is certainly preferable over wasting away multiple days with deep cleans. ■

ABOUT THE AUTHOR

Emily Johnson, born and raised in South Carolina, graduated with a bachelor of science in biological sciences, with a minor in chemistry from the University of South Carolina. She is a recreational water enthusiast living in Atlanta, Georgia, with her two rescue dogs who love a good dip in a splasher pool. She has been working for research and development at BioLab Inc., a KIK Custom Products Company, since 2014. She can be reached via email at emily.johnson@ biolabinc.com.



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MAY IS WATER SAFETY MONTH!

EVEN THOUGH WATER SAFETY and drowning prevention is imperative and important year-round, May is the official "Water Safety Month" and IPSSA would like to highlight some IPSSA Chapters, IPSSA Associate Members and nonprofit organizations that are working hard to make sure individuals of all ages are being safe in and around the water.



Rowdy Gaines, a three-time Olympic gold medalist, who leads PHTA's Step Into Swim program, honors Sai Reddy, CEO and founder of CamerEye, as a water, safety champion.



CAMEREYE IS COMMITTED TO ADVANCING WATER SAFETY

and making pools safer for everyone. Through its safety advocacy program, CamerEye CARES, the company provides consumer and industry education, develops standards, supports non-profit groups, speaks at conferences, lobbies for legislation, and more. Join CamerEye in its mission to make pools safer for all. Visit CamerEye.ai

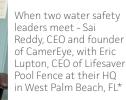
kids about pool safety during the Show 2023 Orlando.

Mary Ann Downing (Pool Safety Mom), and Michele Baker of CamerEye spread

the word about pool

safety for water

safety month.



mingroundatio







Julie and Jonathan (Jasper's Parents) with American Five Time Olympic Gold Medalist Dana Vollmer. Olympians like Dana are important spokespeople for drowning prevention.





Family members of drowning victims at the recent National Drowning Prevention Conference which The Jasper Foundation regularly attend.



THE MISSION OF THE JASPER RAY FOUNDATION is to share the story of Jasper Ray St. Clair to educate others in the community about their role in identifying and reducing risks of drowning. Drowning is PREVENTABLE. You can find more about this organization and Jasper's story at jasperray.org.

Luna and Archer (Jasper's younger siblings) spreading the word -The Jasper Ray Foundation hosts educational booths around Orange County and Southern California to distribute water safety materials, share Jasper's story, and encourage families and pool owners to take action to implement layers of protection to prevent drowning.





CamerEye talks to FSPA Under the Sun



THE IPSSA MENIFEE VALLEY CHAPTER

participates annually in the Elsinore Valley Municipal Water District's annual "Splash into Spring" event in Lake Elsinore, CA. Chapter members hand out water watcher tags, coloring books, water safety materials, and information on low-cost swimming lessons available to children in the area.



Menifee Valley Chapter Members, Sally Smith and Renee Marier hosting the IPSSA table at the Splash into Spring Event



Young boy from the community receiving a free life jacket at the Splash into Spring Event



Community members at the Splash into Spring Event.



WORLD'S LARGEST SWIMMING LESSON (WLSL)

One of the most impactful things you can do during National Water Safety Month is outline a plan to keep your water safety initiative moving forward during peak swimming season. Registering to be an Official Host Location for the World's Largest Swimming Lesson™ (WLSL) is a great way to build on National Water Safety

A rescue buoy makes

a good flotation

device to help a

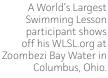
young swimmer

feel confident at the World's Largest Swimming Lesson at Schlitterbahn Waterpark, Galveston, Texas.

Month. Research shows participation in formal swimming lessons for kids ages 1-4 can help reduce drownings by as much as 88%. Help spread that message by getting involved with this year's WLSL event on Thursday June 22, 2023. You can find out more at wlsl.org.



Young men learn the basics about CPR, during the World's Largest Swimming Lesson at the Chris Lyle Aquatic Center in St. Cloud Florida.





Sadly, according to the CDC, nearly 80% of the people who die from drowning are male. These boys are taking precautions by learning how to Be Water Aware™ while they improve important swimming and water safety skills at the Green River Recreation Center in Green River, Wyoming.



Lifeguards at the World's Largest Swimming Lesson event show their support for Team WLSL and its messages, "Swimming Lessons Save Lives," and #Drowning Is Preventable at Dollywood's Splash Country, Pigeon Forge, Tennessee



MAY IS WATER SAFETY MONTH!



JUDAH BROWN PROJECT IS A NON-PROFIT (501c3)

organization that was created in 2016 after the drowning death of the founder's son, 3-year-old Judah. It was created to educate parents, caregivers, professionals and children about the dangers of drowning, and to break down barriers that stop families from accessing swim lessons so that they can stay safer around water.

The Vision of Judah Brown Project is that every child in the United States will be able to learn the skills they need to keep them safer from drowning and that every parent will have access to both education on water safety and the programs that will provide lifesaving skills to their children, without financial or physical barriers to that access. You can find more information about this organization at judahbrownproject.org.



Judah Brown Project representatives at a local school expo event in spring of 2022 educating children and parents about water safety.

Judah Brown Project representatives educating children at a summer 2022 Hometown Heroes Event. They were teaching the children how to "Throw, Don't Go"



One of the activities at their annual Splash and Fun Day with Judah Brown Project community education and fun event in May of 2022.



Christi Brown, Executive Director of the Judah Brown Project and mother of Judah, teaching kids their water safety curriculum at a local Elementary school in the Spring of 2022





One of Judah Brown's 45 scholarship recipients that received free survival swim lessons in 2022



A few of the people who got certified in CPR at their last training in January of 2023



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Representatives from SCP Distributors, Superior Pool Products, and parent company POOLCORP present the YMCA of Southwest Ventura County with funding for 25 Lifeguard Training Scholarships and Safety Around Water lessons for 500 students. From left: Rebecca Badillo and Bill Blunck of the YMCA of Southwest Ventura County, Matt Semonza of SCP Distributors, YMCA of Southwest Ventura County CEO Ronnie Stone; Gerry Mercado of SCP Distributors; Brigitte Bonafont of the YMCA of Southwest Ventura County.



POOLCORP[®] YMCA WATER SAFETY PROGRAM

POOLCORP believes that everyone should know how to swim and they have partnered with the YMCA to serve those children who otherwise may not have the chance to learn crucial water safety skills or take swimming lessons.

- Their program began in 2021. From its inception through the opening of swim season in 2023, POOLCORP has donated more than \$3 million to 21 YMCAs throughout the country, funding swim lessons for more than 30,000 children and training 2,000 lifeguards.
- For children, they believe that learning to swim also instills confidence and paves the way for a brighter, healthier future. Lifequard training helps keep community pools open, providing places for kids to swim, and creates employment opportunities.
- POOLCORP employees and customers also participate by donating new swimsuits, towels, and other swim gear to help make sure there are no barriers keeping children from taking part in the program.
- They are excited about the future of this program and empowering the next generation of swimmers and are thankful to their partners at the Y for helping to build stronger, healthier communities.

For more information on the program, visit poolcorp.com/splash-of-joy.



At POOLCORP, we believe that everyone should know how to swim, and we have partnered with the YMCA to serve those children who otherwise may not have the chance to learn crucial water safety skills or take swimming lessons. From the program's inception in 2021 through the opening of swim season in 2023, POOLCORP has donated more than \$3 million to 21 YMCAs throughout the country, funding swim lessons for more than 30,000 children and training 2,000 lifeguards.



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While attending a Southeast Ventura County YMCA Safety Around Water event, POOLCORP regional manager Gerry Mercado spoke about how important POOLCORP's involvement is to him, "It brought tears to my eyes to see the way the children reacted when they saw the swimming pool – getting relief from the hot summer and being able to enjoy a cool moment. Growing up in a community like this one, it's a great opportunity to me personally to be able to be here and share this moment with these kids. It really does bring joy. Training lifequards will create more jobs in the community, and it allows more community swimming pools to be able to open so the kids are able to enjoy the water."

ASSOCIATE MEMBER COMPANY NEWS





Safe Gates Help Save Lives – Check Your Pool Gate Month

Drowning is the leading cause of death in children aged 1 - 4 years, with an average of 11 fatal and 22 non-fatal drownings per day. The majority of the children that drown in swimming pools most commonly gain access to the pool area through a faulty fence or gate.

Combined with constant child supervision and other layers of protection, physically checking your pool gate and maintaining your pool gate regularly to ensure it self-closes and self-latches at all times could help prevent drownings, yet only 30% of pool owners check the safety of their pool gate once a year. You should not be able to open a gate without activating the release mechanism, which should be out of the reach of toddlers. additionally, the gate should self-close and self-latch without assistance.

D&D Technologies®, the inventor and manufacturer of the MagnaLatch® Pool Safety Gate Latch and the world leader in high-performance gate hardware, has partnered with the National Drowning Prevention Alliance (NDPA) to establish the Check Your Pool Gate Month campaign during National Water Safety Month beginning the first day of May. The initiative was created to remind pool owners of the vital need to ensure pool fences, gates, latches and hinges are secure, adjusted correctly, and incorporate multiple layers of protection to help secure the pool area from unauthorized entry. Every pool owner should be confident they have a safe swimming zone.

"Our goal with Check Your

Pool Gate Month is to educate pool owners about pool safety and to encourage them to check their pool surroundings not once a year, but regularly," says Jim Paterson, D&D's SVP of Sales and Marketing.

A few minutes is all it takes for pool owners to check that their pool fences and gates are in good working order. This simple routine done regularly could help save the life of a child.

For more information on pool safety and compliance visit: us.ddtech.com and ndpa.org. It is critical to check your local pool codes for compliance, as local codes may vary.

King Technology, Inc., expands Leadership Team with Key Positions

Known for growth and innovation, King Technology continues to add key leadership positions.

Brian Holliday has joined King Technology in the newly created role of Director of Strategic Growth.



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FOR A LISTING OF ALL BRANCH LOCATIONS VISIT WWW.POOLELECTRICAL.COM Brian's most recent roles were with KIK Consumer Products (makers of Bioguard Pool & Spa Products) where he held leadership positions in Sales and Marketing.

"I have admired King Technology for my entire 12-year Pool and Spa career," Brian Holliday says. "Simply put, King Technology has a passion for delivering innovative consumer products and they do it within a company culture framework that is both refreshing and appealing. Leadership is committed to growth, and I can't wait to see what is next."

Brian will focus on supporting the development and execution of the strategic growth plan, helping discover and capitalize on the next big growth



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opportunities for the company.

In another newly created position, Alex King has been promoted to Director of Customer Experience.

As a Regional Sales Manager over the last fiveplus years, Alex brings a deep knowledge and understanding of the pool and spa industry's market to this role, along with the many strong relationships with King Technology's partners he's developed.

"Our company's foundation is built in partnership with our customers first and foremost," Alex King states. "I'm looking forward to gaining deeper insights from our customers so we can further elevate the voice of our customer within our organization."

Both new positions will not only help build an organization that meets future goals but also propel the founders' goal, to "build what's impossible."

"We're expanding the team to meet current and projected growth," Randy Roseth, president, states. "These positions will provide strategic leadership to best serve the company."



Long-Time Industry Veteran Retires & BioLab Hires New Director of Sales for NC Brands

BioLab, maker of NC Brands water treatment products (Natural Chemistry, SeaKlear, Coral Seas, Pro Series) is pleased to announce that it has hired RJ Wetzel to the position of Director of Sales for its NC Brands business. He will replace Jay Bertschy, a longtime NC Brands veteran who is set to retire in April 2023 after an incredible career with Natural Chemistry and BioLab.

RJ grew up in the pool industry. He began his career in 1994 at his parents' retail store, D & R Pool Sales in Ohio, eventually taking over as General Manager in 2001. In 2005, RJ joined Natural Chemistry as a Regional Manager in the Mid-Atlantic, later covering the entire Midwest Region from Toledo. His career continued its evolution to Business Development Management and overseeing 12 NC Brands reps as a Regional Sales Manager.

When his family moved to Richmond, VA, RJ took a step away from the industry for a couple years. He then joined another chemical manufacturer where he worked as a Regional Sales Manager for the past 2 years. RJ is excited that this next chapter in his career has brought him back to lead the NC Brands team as he rejoins the KIK/BioLab family.

In his free time, RJ enjoys volunteering with his son's basketball team and Cub Scout Pack plus spending time with his wife, children, and labradoodle.

"RJ brings a wealth of historic knowledge to the NC team," says Ted Lawrence, VP of Sales at BioLab. "We couldn't be more thrilled to welcome him back to lead our NC Brands reps as Jay settles into his well-deserved retirement. We thank Jay for his many years of dedication and look forward to welcoming a new era of NC under RJ's leadership moving forward."

RJ can be reached at <u>rj.wetzel@biolabinc.com</u> or (804) 539-8801. ■

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ProSoft^{*} -POOL SALT-

COMPASS MINERALS KNOWS SALT

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Compass Minerals produces high-quality, high-purity ProSoft[®] Pool Salt through solar evaporation - the oldest and most energy-efficient mineral extraction method. The company leverages the high mineral concentrations within the ambient lake brine from the North Arm of the Great Salt Lake in Ogden, Utah. Highly concentrated saline waters are drawn from the lake's most remote areas into very shallow solar evaporation ponds. The sun and wind naturally evaporate the water, leaving beds of crystallized minerals, including sodium

chloride (salt). The salt is then harvested, cleaned, processed and packaged for pool professionals.

The high-purity, extra-fine salt crystals of ProSoft Pool Salt dissolve rapidly and contain a natural, proprietary stain fighter that helps protect pool finishes. Designed for pool professionals and engineered specifically for use with electrolytic chlorine generators, ProSoft Pool Salt meets or exceeds the standards set by leading chlorine generator manufacturers and has earned the official certification of the National Sanitation Foundation (NSF) to NSF/ANSI 60 and NSF/ANSI 50.

A COMMITMENT TO ENVIRONMENTAL STEWARDSHIP

Compass Minerals is dedicated to the responsible transformation of Earth's natural resources. The company maintains a strong focus on operating responsibly and sustainably, striving to protect and preserve ecological balance in the areas where it operates and to minimize climate-related impacts from its operations. Its strategy is based on the measurement and management of key environmental impacts to air, water, waste and natural resource consumption. Compass Minerals has been named one of America's Most Responsible Companies by Newsweek in 2022 and 2023.

A COMMITMENT TO CUSTOMERS

Compass Minerals proudly supports U.S. pool and spa industry associations and pool professionals with an American-made, high-quality pool salt product. In the mission to safely deliver for its customers and communities, Compass Minerals has developed expansive logistics and salt depot networks, utilizing rail, vessels, barges and trucks to transport products. This superior distribution network — along with a dedicated customer service team — ensures that customers get the product they need reliably and economically.

Call 877.462.7258 to be connected with a Compass Minerals ProSoft Pool Salt representative. ■

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The Crystal Water Cartridge Filter is at the top of the list when considering swimming pool and spa filtration. For the clearest, most inviting water, choose the Crystal Water Cartridge or DE Filter.

Features:

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- New heavy duty manual air relief valve



UP NEXT IN THE IPSAA WEBINAR SERIES **Proposals and Service Agreements Nuisances so you don't end up underwater**

MAY 9, 2023 AT 5:30PM - 6:30PM (PST)

Proposal and service agreements are essential tools for professionalism. Lessons learned in business are why we have agreements and continue to adjust our agreements as new risk scenarios are discovered. The panel will discuss common sense and options contained in effective proposals and agreements. The panel will also share stories of their decade worth of experiences to enlighten you on their experiences with service proposals and agreements. **Advanced registration is required. Register now to secure your spot.**

IPSSA & Industry Events

SACRAMENTO REGION

TABLETOP EVENT May 3, 2023 Fair Oaks VFW Fair Oak, CA

EAST BAY IPSSA CHAPTER TABLETOP TRADESHOW

May 16, 2023 Pleasant Hill Community Center Pleasant Hill, CA

POOL INDUSTRY EXPO

(PIE SHOW) September 14-16, 2023 Hyatt Regency Hotel Monterey, CA

PSP/DECK EXPO

November 13-15, 2023 Las Vegas Convention Center Las Vegas, NV

WORLD AQUATIC HEALTH CONFERENCE

November 13-15, 2023 Las Vegas Convention Center Las Vegas, NV



IPSSA RELATED EVENTS



ON MARCH 22, 2023, SALLY SMITH, Secretary/Treasurer of the IPSSA Menifee Valley Chapter presented a \$200 donation along with fresh oranges and lemons from her property's trees to the DC (Dream Center) Pantry, which is a local food bank that has been servicing the Lake Elsinore area since 1992. You can find out more information about the Dream Center and the services they provide to their local community at dreamcenterle.org.







IPSSA'S EL DORADO CHAPTER annual trap shoot had a record turnout at 90 shooters at their event on March 18, 2023. The weather couldn't have been nicer! As always, Pentair and HASA put on a spectacular BBQ for everyone. IPSSA El Dorado would like to congratulate HASA who came in first place this year. The chapter also raffled off a Browning Citori Over & Under shotgun valued at \$3,350.00. The winner was Craig Dennett who purchased one \$20.00 ticket. We would like to thank everyone that came out to support this event - SCP, PEP, Hayward, Fluidra, Pentair, Adams Pool Specialties, HASA, and El Dorado Custom Pools.



Above: The Prism Pool Pros crew



Erik Larum, Owner of Prism Pool Pros

Congratulations to IPSSA Member Prism Pool Pros on 20 years in the Pool Service Industry!

PRISM POOL SUPPLIES HAS BEEN SERVICING the swimming pools of residential and commercial clients in Yolo County for 20 years now and are grateful for the support over their first 2 decades in business. As part of their 20-year anniversary celebration, they have reintroduced themselves as Prism Pool Pros to give a better idea of who they are, what they do, and why they do it.

Prism Pool Pros is a second-generation, family-owned, local pool service company based in Woodland, California. The company has nine Pool Pros on staff with decades of experience not only servicing commercial and residential pools but also repairing, replacing, and troubleshooting all brands of pool equipment. They are licensed, insured, CPO-Certified and utilize industry-leading software to provide their clients a clear idea of what is happening with their pool and what they're doing about it.

- Their core values have proven to help with the success and longevity of the business:
- 1. Clients are not always right but it is our job to make them feel right.
- Every Team Member is expected to work toward being the best they can be at the task they are assigned.
- 3. Prism Pool Pros is a place where what they know how to do is tested by what they do not know how to do, and that conflict creates growth, which creates meaning.
- 4. Follow the Golden Rule.



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*More information about event registration will be available in June. Please note there will be **no onsite registration**.

New Products

SeaKlear[®] Improves Chitosan Clarifier[™]

The original Chitosan Clarifier uses an improved high-quality chitosan formula to deliver superior water clarity. It contains recycled shells from the seafood industry that would have otherwise ended up in landfills. This tried and true technology doesn't interfere with the performance of other pool products. It even works with high sanitizer levels and can be used at the same time as shocking your pool. Chitosan Clarifier works to improve filter performance while keeping pool water crystal clear. Available in 32 oz and 55 gallon sizes for commercial use. Learn more at seaklear.com.





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.



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Chapter Information and Meetings

REGION 1 Northern California Ryan Ruminson, Director 530-401-7346 | ryanruminson@ sbcqlobal.net

Capital Valley (Sacramento) First Wednesday, 7:00 p.m.

VFW 8990 Kruithof 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: <u>Rick Plath</u>, 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: <u>Shawn Panico</u>, 916-201-6245

Elk Grove

Second Wednesday, 7:00 p.m. Logan's Roadhouse 9105 W. Stockton Blvd., Elk Grove President: <u>Deon Nesson,</u> 916-870-7630

Gold Country

First Monday, 6:00 p.m. 2515 Grass Valley Hwy., Auburn President: <u>Alex Tobiasz</u>, 916-759-8028

Modesto Central Valley

Third Tuesday, 6:00 p.m. Mi Casa 624 N. Golden State Boulevard Turlock, CA 95380 President: <u>Albert Camarillo</u>, 209-628-2717

Sacramento City

Fourth Wednesday, 7:00 p.m. Plaza Hofbrau 2500 Watt Avenue, Sacramento President: <u>Derin Schroeder</u>, 916-367-9934

Tracy

Fourth Thursday, 6:00 p.m. Perko's Cafe 1321 W. 11th Street, Tracy President: <u>Beau Hoff</u>

West Placer

First Thursday, 5:30 p.m. Strikes Bowling Alley 5681 Lonetree Blvd., Rocklin President: <u>Bryan Soto</u>, 916-258-5114

REGION 2 Central California Beau Braisher, Director 661-332-4952 | braisherpools@gmail.com

Bakersfield First Tuesday of Feb., May, Aug., Nov., Dec. at 5:30 p.m.

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Central Coast

Second Wednesday, 6:00 p.m. Nino's Grill, Templeton President: <u>Matt Mazzo</u>, 805-614-3114

Conejo

Second Wednesday, 7:30 p.m. Alpha Water Systems 725 Cochran Street #A, Simi Valley President: <u>Dennis Van Sloten</u>, 805-813-6154

Conejo Valley

Second Wednesday, 6:30 p.m. Superior Pool Products 1200 Lawrence Drive #400, Newbury Park President: <u>Michael Flanagan</u>, 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: <u>Steven Polovina</u>, 661-236-6095

Diamond Bar

First Thursday, 7:00 p.m. PEP 563 W. Terrace Drive, San Dimas President: <u>Robert L. Betts</u>, 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: <u>Eric Nielson</u>, 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: <u>Glen Batista</u>

REGION 4 South L.A. County, California Rick Morris, Director 310-755-5279 | rick-morris@sbcglobal.net

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. Shakey's Pizza Parlor 3615 Pacific Coast Hwy. Torrance, CA President: Rick Morris, 310-755-5279

West Side

Second Tuesday, 6:30 p.m. American Legion Hall 5309 S. Sepulveda, Culver City President: <u>Richard Okamoto</u>, 310-927-2411

Whittier

First Wednesday, 7:00 p.m. Location TBD President: <u>Martin Madrid</u>, 909-374-7533

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: <u>Cal Pratt</u>, 949-230-7462

Central Orange County

Last Tuesday, 7:00 p.m. Chapter meets virtually via zoom President: <u>Jeff Steinker</u>, 949-292-4026

Dana Point

Second Tuesday, 6:00 p.m. Coco's Restaurant Crown Valley at I-5, Dana Point President: <u>Mike Boucher</u>, 949-456-0663

Mission Viejo

1st Tuesday of every month, 6:00 pm Laguna Hills, CA 92653 President: <u>Chris Dodds</u>, 949-683-6076

Orange Coast

Last Monday, 5:00pm Roundtable Pizza on Adams and Beach President: <u>Rob Mangus</u>, 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: <u>Brian Bembry</u>, 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: <u>Rich Foley</u>, 714-974-1514

Yorba Linda

First Wednesday, 7:00 p.m. Round Table Pizza 18518 Yorba Linda Blvd, Yorba Linda President: <u>David Hartson</u>, 714-306-4864

REGION 6 Inland Empire, California **Scott Peterson, Director**

951-255-4175 | ipssascott@yahoo.com

Corona

Second Tuesday, 7:00 p.m. Marie Callenders 160 E. Rincon St (at Main St), Corona President: <u>Ernie Machado</u>, 951-264-7464

Hemet

Third Thursday (Bi-monthly), Dinner 5:30 p.m. - 6:00pm; Meeting 6:00 p.m. - 7:15 p.m. Laurel Park Clubhouse 761 Sumac St., Hemet President: <u>Kenneth Campbell</u>, 951-733-4330

Menifee Valley

First Wednesday 7:00 p.m. My Buddies Pizza 2503 E. Lakeshore Drive #A Lake, Elsinore President: <u>Renee Marier</u>, 951-285-9672

Ontario/Rancho Cucamonga

Sloan's, 81539 US Hwy 111, Indio

Superior 5700 Indian Springs Rd,.

President: Jim Elliott, 760-413-0463

32971 Yucaipa Boulevard, Yucaipa

5225 Canyon Crest Drive, Ste. 58

President: Bill Brooks, 909-553-5780

Romano's Italian Restaurant Canyon Crest

First Wednesday, 5:30 p.m.

Second Tuesday, 6:00 p.m.

First Tuesday, 6:00 p.m.

President: Matt Kauber, 760-702-0160

Second Tuesday, 7:00 p.m. Location varies. Please contact chapter president for more info. President: <u>Ron Goodwin</u>, 909-989-0406

Palm Desert Third Thursday, 6:30 p.m.

Palm Springs

Palm Springs

Redlands

Riverside

Hickory Ranch

Riverside, CA President: Scott Zahn, 951-966-0592

Temecula/Murrietta Third Wednesday

Dinner at 5:30 p.m. & Meeting at 6:30 p.m. Richie's Diner 40651 Murrieta Hot Springs Rd. Murrieta, CA President: Cort Williams, 951-775-2678

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 ipssasandiego.com President: Ken Dirkse, 858-761-2283

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 Linda Cross, Director 702-524-8453 | ipssalindacross@gmail.com

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., Tuscon, 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: Stephen Cross, 702-375-3725

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: John Morgan, 512-472-5355

Clear Lake

Fourth Tuesday, 7:00 p.m. Rudv's BBO 21361 Gulf Fwy Webster President: David Potts, 208-887-6486

Corpus Christi

First Thursday, 6:30 p.m. SCP in Corpus Christi President: Jeff Snyder, 361-397-9444

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 Chanala 9041 Research Blvd. #100, Austin President: Justin Pinson, 512-766-7946

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. Longhorn 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 | qary@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: lim Huxtable, 408-218-3533

Santa Clara Valley

Third Thursday, 6:00 p.m. Feb, Apr, Jun, Aug, Oct, Dec Roundtable Pizza 1400 W. Campbell Ave, Campbell 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) Dublin Bowl 6750 Regional St., Dublin President: Gordon Gregory, 925-992-2212

REGION 11 Florida and Georgia inssafl com

Todd Starner, Director 941-915-2135 | tstarner@tampabay.rr.com

Gold Coast (Ft. Lauderdale area)

Second Tuesday, 6:30 p.m. Winas Plus 9880 W. Sample Road, Coral Springs, FL President: Ana Labosky, 954-224-7733 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 Cattlemen 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

Rockwall

Second Thursday of each month Dinner 5:30 p.m.; Meeting 6:30 p.m. Shenaniganz 1290 E. Interstate 30, Rockwall President: Elias Duran, 512-529-1153

Tarrant County

First Tuesday, 7:00 p.m. El Chico's Cafe 7621 Baker Blvd., Richland Hills President: Dustin Gardner, 817-366-8927

Waxahachie

Second Wednesday, 7:00 a.m. Dennv's 408 Westchase Drive, Grand Prairie President: Bryan Courville, 817-308-9874



ASSOCIATION INFORMATION

Executive Director Phone: 888-360-9505 x2 Fax: 888-368-0432 PO Box 254645

FINANCE TEAM

Frank McDonald

888-360-9505 x1

MEMBERSHIP

Membership Assistant 888-360-9505 x1

INSURANCE BILLING

Phone: 844-574-1134 Fax: 888-811-4502 PO Box 2934



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Terry Arko, Product Training Manager: terrvarko@hasapool.com HASA, Inc. is a leading producer and distributor of high-quality water treatment solutions. Their products are used to sanitize and maintain recreational swimming pools and spas; water tanks and containment vessels; municipal drinking water; and other commercial and industrial water systems. Founded in 1964, the company is recognized industry wide as the premier source for sodium hypochlorite sanitization and shock solutions.



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GOLD PARTNERS



rpoolproducts.com Todd Pieri: toddp@ aquastarpoolproducts.com 877-768-2717 AquaStar is a global leader in safety,

dependability, and innovation in swimming pool technology. AquaStar products are designed, manufactured and assembled in the USA to assure the highest level of quality.

HERITAGE POOL SUPPLY

Heritage Pool Supply

heritagepoolsupplygroup.com Aidee Pacheco: aidee.pacheco@ heritagepsg.com 909-717-4908

Heritage Pool Supply Group's vision is to grow by forming a network of the best independent distributors to provide exceptional customer service while increasing our value as a trusted growth partner to top manufacturers in the industry. Our mission is to help our family of companies achieve new heights and provide opportunities for all employees to grow, thrive, and advance with the company for decades to come.



Industrial Test Systems

sensafe.com 800-861-9712 Mike McBride: mmcbride@sensafe.com George Bailey: gbailey@sensafe.co Manufacturer of water quality test strips and meters for the pool and spa service industry



King Technology

kingtechnology.com 952-933-6118 Lynn Nord: <u>lynn.nord@kingtechnology.com</u> Manufacturer of water purification products using minerals and 50% less chlorine



PoolRX Worldwide poolrx.com 949-502-5851

Fred Schweer: fred@poolrx.com Pete Ashby: pete@poolrx.com Manufacturer of algaecide



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