

California Capitol Report

Year-end report

By John Norwood
John Norwood is president of The California Pool and Spa Association (formerly SPEC).



The California Legislature adjourned for the year on September 16th and will not return for the second half of the 2017-2018 Legislative Session until January 3rd, 2018.

tional liabilities on companies doing business in the state. Such bills are bad enough for all employers in the state, but are even more challenging for small businesses.

For perspective regarding the legislative activity from this year, the following occurred: bills signed into law by the Governor: 859; bills vetoed by the Governor: 118; total bills acted upon: 977; signing percentage: 88%; veto percentage: 12%

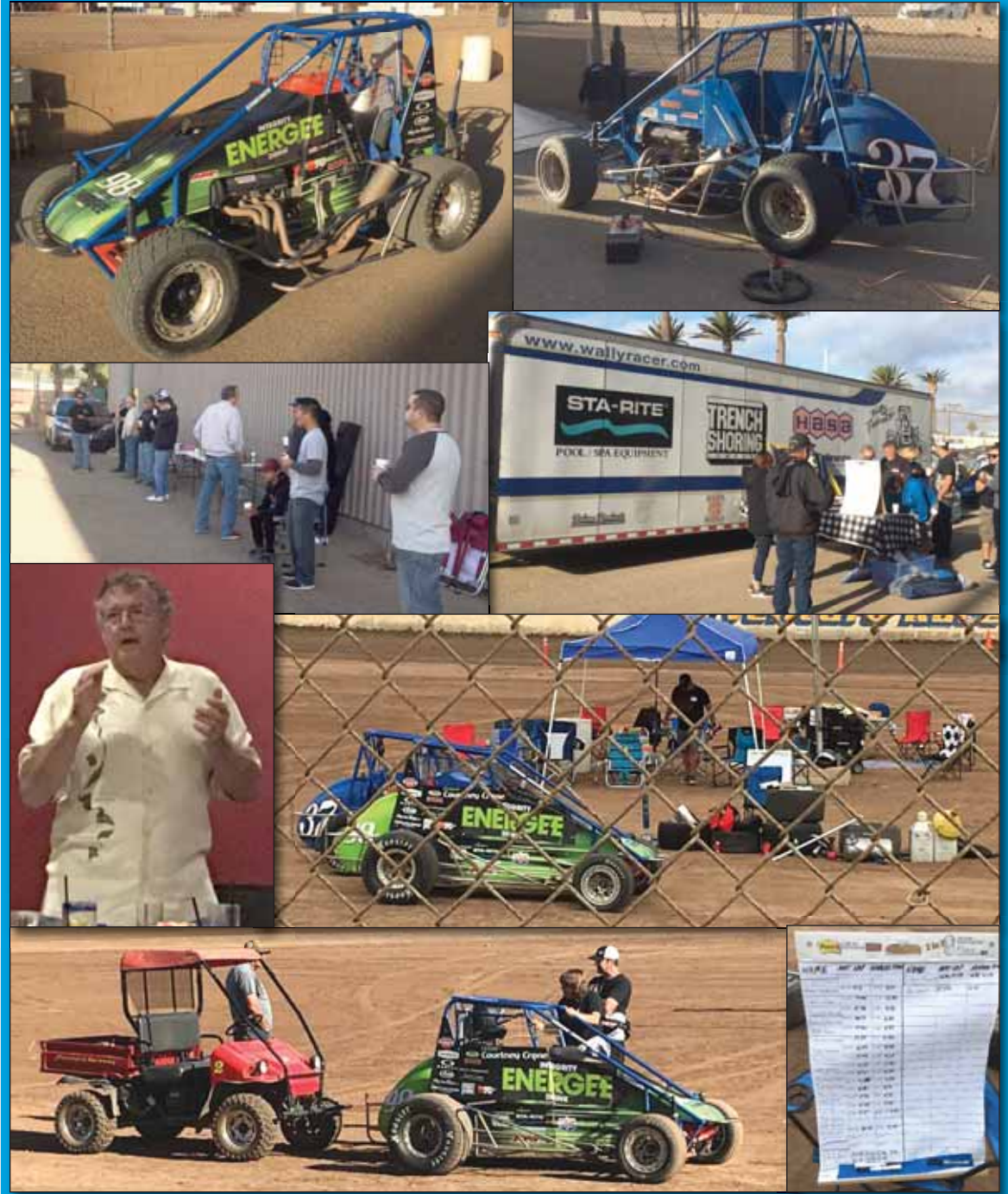
Two bills are of primary importance to the swimming pool and spa industry. The first of these bills, AB 1701 was one of the last to be signed into law by the Governor. This bill imposes liability on a general contractor for the wages and any benefits that were to be paid to the employees of a sub-contractor. Sponsored by the Carpenters Union and supported by organized labor, AB 1701 imposes the same responsibility for wages of employees of sub-contractors as is current law for public works projects. However, making such a law applicable to private business will be a huge problem for small builders. AB 1701 contains a one-year statute of limitations and the employee does not have to exhaust his or her remedies against

Of the 859 bills that the Governor signed this year, 567 were Assembly bills and 292 were Senate bills. Of the 567 Assembly bills signed into law, 85% were authored by Democrats and 15% were authored by Republicans. Of the 292 Senate bills signed into law, 86% were authored by Democrats and 14% were authored by Republicans.

It is likely that 2017 was the most anti-business Legislature in recent times. This session saw numerous bad labor and employment bills introduced as well as bills that sought to impose addi-

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Ventura Race Day



By Adam Morley
Adam Morley is the Region 4 Director.
 In November, HASA and Pentair/Sta-Rite hosted a two day Race Day at the Ventura Raceway. Over 20 people were able to drive midget race cars on the dirt track, many of which were IPSSA members. It was a great time, above are a few pictures from the event. Race team owner Wally Pankratz and his daughter Randi instructed the event.

The Basic Training Manual errata is now available!

The errata for the Basic Training Manual – Part 1 Water Chemistry – Revised Edition 2016 is now available in English and Spanish! You can download a copy from the IPSSA member portal or call the IPSSA Executive Office at 888-360-9505 and request a printed copy.



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- ### Things to do in December
- Buy new equipment and/or trucks
 - Send holiday greetings to customers
 - Get new service contracts from customers
 - Reward yourself

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THE IPSSAN

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Deadline for submission of articles is the 20th of each month. Material submitted late will be considered for the following month.

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No one wins the October Education Corner quiz

Sometimes it happens. No one who submitted entries for the October Education Corner quiz got 100% correct. All correct entries submitted during 2017 are eligible for a big drawing at the end of the year for more IPSSA logo items.

The correct answers for the October quiz are 1. Alkaline sanitizers such as liquid chlorine, cal hypo, lithium hypo and chlorine generators require an ideal level of total alkalinity of: A. 120 to 140 ppm B. 100 to 120 ppm C. 60 to 140 ppm D. 80 to 100 ppm, *the correct answer is d) 80 to 100 ppm*. 2. A cubic foot of water contains exactly how many gallons of water? A. 7.68 B. 7.58 C. 7.48 D. 6.48, *the correct answer is c) 7.48*. 3. It takes 10 ppm of cyanuric acid to protect 1.0 ppm of chlorine. A. True B. False, *the correct answer*

is a) true. 4. Cyanuric acid will protect bromine too. A. True B. False, *the correct answer is b) false*.

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Calendar of Events

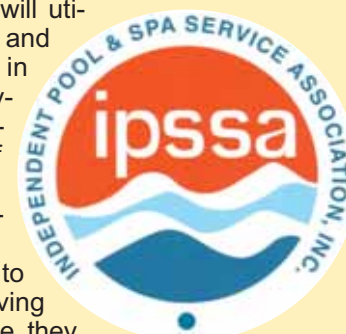
- Jan. 10** **HOTT Show**
The Phoenix Club, Anaheim, CA
www.hottshow.org
- Jan. 17-20** **Southwest Pool & Spa Show**
George R. Brown Convention Center, Houston TX
www.swpssshow.com
- Jan. 27** **Region 7 Table Top Show**
Four Points Sheraton, San Diego, CA
www.region7tabletop.com
- Feb. 1-3** **Desert Pool & Spa Show**
Phoenix Convention Center, Phoenix, AZ
www.dps-show.com
- Feb. 9-10** **IPSSA Leadership Weekend**
Wyndham Anaheim Garden Grove, Garden Grove, CA
info@ipssa.com
- Feb. 21** **Inland Empire Pool Expo**
University of Redlands Orton Hall, Redlands, CA
www.inlandempirepoolexpo.com
- Mar. 15-17** **Western Pool & Spa Show**
Long Beach Convention Center, Long Beach, CA
www.westernshow.com

WELCOME NEW MEMBERS!

REGION 1 – Tracy: Ryan Richey... **REGION 3 – Diamond Bar:** Jose Rojas... **REGION 5 – North Orange County:** Derek Boulanger... **REGION 10 – Monterey Coast:** James Huxtable.

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.

Financial office thanks chapters with prompt payments

The Financial Office thanks the following 38 chapters, whose members all paid promptly in November before second notices were required:

- Region 1 – Capital Valley, Delta, East Contra Costa, El Dorado
- Region 2 – Central Coast, Santa Barbara
- Region 3 – Foothill, Santa Clarita
- Region 4 – East Long Beach
- Region 5 – Anaheim, Central Orange County, Mission Viejo, OCPP, Orange County #9, Saddleback, Southwest, Surf City, Tustin/Irvine, Yorba Linda
- Region 6 – Corona, Hemet, Menifee Valley, Ontario/Rancho Cucamonga, Palm Desert, Redlands
- Region 7 – Carlsbad, North County Coastal, San Diego East County, San Diego Metro
- Region 8 – Henderson, Tucson, West Valley
- Region 9 – Hill Country
- Region 10 – Fremont, Tri Valley
- Region 11 – Port Charlotte, Treasure Coast
- Region 12 – Dallas

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Education

Corner

All members who mail an entry with the correct answers will become eligible for a drawing at the end of the month for IPSSA logo gear. All correct entries will go into a year-end drawing for other IPSSA merchandise. IPSSA members are the only eligible participants and only one entry per month is permitted. Each month, the winner of the drawing will be published in The IPSSAN. Entries for this month must be received by **JANUARY 20, 2018**.

1. All water has some chlorine or sanitizer demand that must be met first, before a residual can be established.
A. True
B. False
2. Trichlor has a pH of:
A. 2.8 to 3.0
B. 3.0 to 3.5
C. 3.5 to 4.0
D. Greater than 4.0
3. Plaster is a mixture of white cement and aggregate.
A. True
B. False
4. When using dichlor, remember that the 56 percent dichlor is about ____ percent cyanuric acid.
A. 50
B. 44
C. 54
D. 58

Name _____

Address _____

City _____ State _____ Zip _____

Telephone Number (____) _____

Chapter _____

Correct Answers: 1. _____ 2. _____ 3. _____ 4. _____

(Please indicate A, B, C, or D for each answer.)

Mail Entry to:

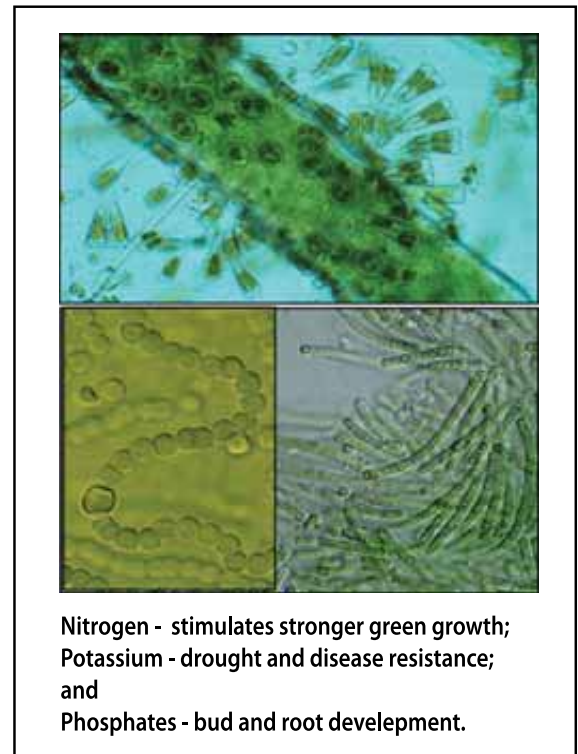
**IPSSA Quiz, 10842 Noel Street, #107, Los Alamitos, CA 90720
or Fax to: (888) 368-0432**

Entries for this month must be received by JANUARY 20, 2018.

Why Starve? Prevent & Kill Algae!

ALGAE and **PHOSPHATES** have existed for billions of years. In the past, pool service techs kept pools clean and free of algae with just chlorine, pH control and with an occasional algaecide. In recent years, flocculation removal of phosphates and other suspended pool particles have become useful under certain conditions to improve chlorination and the control of algae.

Did you know, it is nitrogen, not phosphates that produce lush growth in algae and plants? In photosynthesis, it is carbon, oxygen and hydrogen plus sunlight energy that creates a chemical reaction to produce *glucose*, the real food source for algae, not phosphates. Phosphates, nitrogen and potash are the three primary elements of fertilizer - *research the facts*.



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What to do after wildfires

By Terry Arko

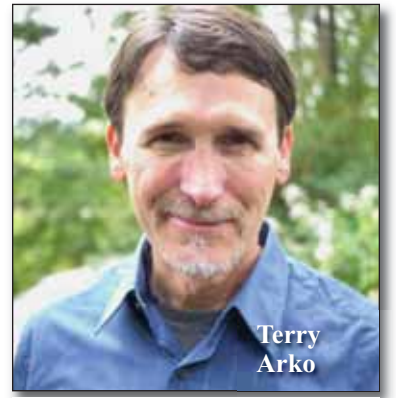
Terry Arko has more than 30 years of experience in the pool and spa/hot tub industry, working in service, repair, retail sales, chemical manufacturing, customer service, sales, and product development. A certified pool operator (CPO) and CPO instructor through the National Swimming Pool Foundation (NSPF), he is currently a water specialist for NC Brands, parent company of SeaKlear and Natural Chemistry, which is a manufacturer of pool and spa products. Terry can be reached via e-mail at terry@ncbrands.com.

No words can adequately express the condolences felt for

those who have suffered loss during the recent wildfires. In the case of active fires, the utmost concern should be for the immediate safety of persons and property. In addition, it is vital to comply with the emergency management in the area. Avoid areas of heavy smoke where emergency crews are still set up.

During the fire

Water pressure and water quality at the source will be affected during and after times of wild fires. All types of debris are possible during times of wildfires as result of possible high winds. Smoke, ash, tree branches, leaves and fire suppressant chemicals will all



Terry Arko

most likely end up in the pool. Also, there is the possibility that live animals may seek shelter in the pool or pool area. Use extreme caution in and around areas where wildfires are still active. Protective gear such as respiratory mask, goggles and gloves may be required in these situations.

After the fire

Clean up after a wildfire can take some time and should be pursued with care. Be aware of live downed power lines. If power has been off at the house, be sure to check the integrity of all wiring leading to equipment. Pools should be treated as follows:

- Remove all larger debris as soon as is possible.
- Brush all surfaces thoroughly
- Skim smaller material with a pool net
- Make sure filter is clean and in operational order
- Super-chlorinate the pool to 20 ppm or use a quality Chlorine free oxidizer
- Follow immediately with a clarifier to help remove small ash material to the filter
- Use of an enzyme can help break down some un-filterable non-living organic material
- *Test and treat for phosphates once the chlorine levels have come down below 5 ppm
- Add a good broad spectrum algicide
- Clean filter as necessary throughout this process

Further cautions

The extreme heat from fires can cause the ground to bake leading to a lack of absorption when rains come. Excessive erosion from firefighting efforts could lead to flooding and mud flows during rains. Pool areas need to be protected with sand bags or other diversion methods immediately after fires to prevent an influx of mud and flood water from entering the pool. In some cases where water pressure becomes an issue during the fire, some departments may incorporate pumps in the pool to use the water for protecting homes. Homeowners in wildfire areas can also buy pumps that can be used to soak down their property. These pumps can typically work at a flow of 150 gpm and can disperse the contents of a 20,000-gallon pool within 2 hours. Pool techs should be aware ahead of time of this possibility and should check that hydrostatic relief valves are in place on these pools to prevent the pool vessels from popping out of the ground during these emergency use times. If there is, a high groundwater table or the pool is built over an underground spring this could be a very real possibility. Pools that have been drained will need to be inspected for damage to surfaces

Continued on page 12

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2018

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- Understand the fundamentals of pool maintenance
- Become more proficient in basic water chemistry
- Sharpen your skills in operating your pool service as a profitable business. Legal aspects, proper bookkeeping, billing to name a few.
- Last year we gave away: Apple iPad, Samsung Galaxy tablet, and a 50" HDTV. Grand Prize drawing last year was by Hayward: The Pool Cleaner, SwimClear cartridge filter, Tri-Star Variable Speed Pump.
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- All paper or online applications must be postmarked or received by 3/1/2018.

- Please see PG&E's Residential Rebate Catalog for additional information and require-

ments.

Thank you for your participation in PG&E's energy efficiency programs. For further questions, please contact the Smart Energy Line at 1-800-933-9555.

Sincerely,
PG&E Customer Care Team

Hey Ray!

Answers to recent questions asked to IPSSA's insurance broker



Ray Arouesty is Senior Vice President of Arrow Insurance/HUB International and IPSSA's endorsed insurance provider. He can be reached at (800) 833-3433 or ray@arrowinsuranceservice.com

This month's question comes

from a member in Texas.

Hey Ray:

My customer just installed a four-foot deep fiberglass pool at a commercial property. The pool is located in a cave-like setting where rocks overhang the pool. These rocks are about twenty feet above the water's surface and I'm concerned that someone would be seriously hurt by diving off the rocks. I've discussed this with my customer, but he is refusing to install a barrier fence to prevent diving or jumping. Am I at risk if someone gets hurt?

Answer:

It sounds very likely that anyone diving into this four-foot deep pool would sustain serious injuries, possibly including paralysis or quadriplegia. These are very high damage cases and I'd expect a lawsuit to certainly be filed if an accident occurred. The defendants would typically include the property owner, property management company, the pool installation contractor and civil engineer. But others too, could be named as defendants, including a service technician who failed to advise on the need for signage, warning divers of the risks presented. Litigating a case like this could take years and I wouldn't continue servicing this pool. Judgments in other swimming pool related paralysis cases have exceed \$10 million dollars and it is possible that you could be responsible for an amount exceeding your insurance limits. Make sure you advise the customer in writing if your drop the account and explain the reasons for your decision.

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January

2018 SHOW details

- HOTT Show in Anaheim, CA on January 10th
- Southwest Pool & Spa Show in Houston, TX on January 19th-20th
- Region 7 Table Top Show in San Diego, CA on January 27th

CALIFORNIA LOCATIONS

ANAHEIM 714-738-9038	BAKERSFIELD 661-679-1193	CATHEDRAL CITY 760-202-9075	CORONA 951-479-4670	DUARTE 626-359-1918	EL CAJON 619-562-0313	INDIO 760-776-1366	LIVERMORE 925-449-4259
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Reducing monthly operating expenses by employing energy-smart equipment starts by examining pump and filter efficiency

By Mike Fowler

Mike Fowler is the commercial marketing and sales manager for Pentair Commercial Aquatics in Sanford, N.C. He has been with Pentair since 1992, starting his career in the technical services department at Purex Pool Products. Fowler has held many managerial roles within the company, including marketing, Customer management, accounting and products. He can be reached via e-mail at mike.fowler@pentair.com

Facility managers have learned over the past few years that going 'green' can significantly lower an aquatic facility's operating costs. Pumps and filters are among the items most scrutinized due to the vast amount of energy they consume. To reduce costs associated with water circulation and filtration it is important to understand why pumps and filters consume large amounts of energy and what options are available to lower consumption. This article will look at various ways in which pool professionals can help an aquatic facility save energy and money with green options for pumps and filters.

Extracting costs from filtration

The type of filter used (e.g. cartridge, sand or diatomaceous earth [D.E.]) can have a significant impact on energy consumption, as each one places different levels of resistance on the circulation system.

Resistance is related to energy efficiency because of its impact on water flow. Of the three filter types, cartridge filtration offers the least resistance to flow, which is partially due to the absence of valves. Both sand and D.E. filters require multi-port valves to perform routine backwash procedures. These valves create so much resistance to flow that the California Energy Code (Title 24), The Energy Efficiency Standards for Residential and Nonresidential Buildings, has banned 1.5-in. multi-port valves. As a result, newer backwash valves have been designed to lessen flow resistance. On a related note, backwashing consumes water, so using a filter that does not require this type of maintenance will help the facility conserve both water and chemicals.

Although sand and D.E. filters function more effectively as dirt accumulates, a dirty filter can increase the pump's workload. In fact, the difference between a clean and dirty filter can nearly double the pump's energy consumption. If friction loss can be decreased in the facility's plumbing design and equipment sizing, less horsepower (hp) is required to achieve the desired flow rate. While the type of filter installed is often a personal preference, the energy savings realized when using an oversized cartridge filter to reduce overall system head loss is well documented.

Finally, by simply keeping the pool's filter clean and skimmer basket free of leaves and other debris, energy savings can be quite significant.

Circulate savings by selecting the right pump

Proper pump selection (sizing) and optimal flow rates (as men-

tioned above), are additional ways an aquatic facility can increase energy savings. Affinity laws indicate the power demanded by a pump is proportional to the cube of the flow rate. For example, if the pump's flow rate is doubled, then its power demand is increased by a factor of eight. Therefore, it is important to utilize the smallest pump that is capable of completely turning over the pool water in an acceptable amount of time.

During the pump selection phase, the facility's auxiliary features (e.g. spray pads, fountains and waterfalls) should also be considered, as it is common for them to use the pool's main pump. Some building codes, however, require the use of a multi-speed pump, or in some cases, a separate pump for each auxiliary pool load. Pumps for aquatic facilities are oversized by design, sometimes more than 20 to 40 per cent bigger

than they need to be. This happens because many architects and engineers look at what is required, then pick the next size up to be sure the pump can handle the job.

Pump selection tips:

1. Determine flow rate in gallons per minute [GPM].
2. Calculate total dynamic head (TDH) (the pressure head difference between the inlet and outlet of the pump) to account for friction loss. Adding 20 ft/head for a dirty filter is optional.
3. Refer to the pump's performance curve to select the preferred unit.
4. Locate pump horsepower required by plotting GPM vs. TDH (if plotted point falls between two pump sizes, select the next larger pump size).
5. Do not oversize the pump. If the preferred pump does not provide a proper fit, consider a different pump model.

Continued on page 8

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9:00 - 10:50 How to Miraculously Improve Your Business David Hawes	9:00 - 10:50 Introduction to VSF Pumps Pentair	9:00 - 10:50 What You Need To Know As a New Service Tech Peter Haverlation
11:00 - 12:50 New Research Findings On Plaster Problems on Balance	11:00 - 12:50 What You Need To Know To Size Pumps & VS OMNI Hayward	11:30 - 12:50 JXI Heaters & Basic Automation Zodiac Pool Systems
1:00 - 2:00 Q & A With on Balance	1:00 - 2:00 Salt: Why & How Hayward	1:00 - 2:00 PVC Plumbing Hands On Display James Henry

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Examining pump and filter efficiency

Continued from page 7

6. Verify the selected filter can handle the system's flow rate and be sure the minimum backwash flow rates can be achieved.

Speed is a factor

Historically, pool pumps with induction motors, which only operate at one or two speeds have

drawn more energy than is required to circulate pool water. These units must constantly operate at high speed in order to perform the pump's most demanding jobs (e.g. running a waterfall or pool cleaner). However, it takes far less power to simply keep the pool water filtered—a difference single-speed pumps cannot address.

Where variable speed pumps (VSPs) differ is in their ability to be programmed to operate at set speeds to deliver the correct flow rate for each task they perform. This enables an aquatic facility to reduce energy consumption and increase savings.

They can also be programmed

Continued on page 23



East Bay chapter treasurer Dave Way presents John Norwood and Jerry Wallace of CPSA \$10,000 from the chapter.

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California Capitol Report

Continued from page 1

the sub-contractor before going after the general contractor for wages and benefits owed. This might possibly be the worst bill enacted by the California Legislature in recent times. AB 1701 was opposed by the California Pool and Spa Association (CPSA).

The second bill of major importance to the industry is SB 442, which addresses the issue of child accidents and pool safety. The bill amends the California pool barrier law to require newly contracted swimming pools to have two of the seven allowable barriers in place, instead of one. The bill was sponsored by the California Coalition for Children's Safety and Health, Drowning Prevention Foundation, California Park and Recreation Society, Health Officers Association of California, and Consumer Attorneys of California. The California Pool

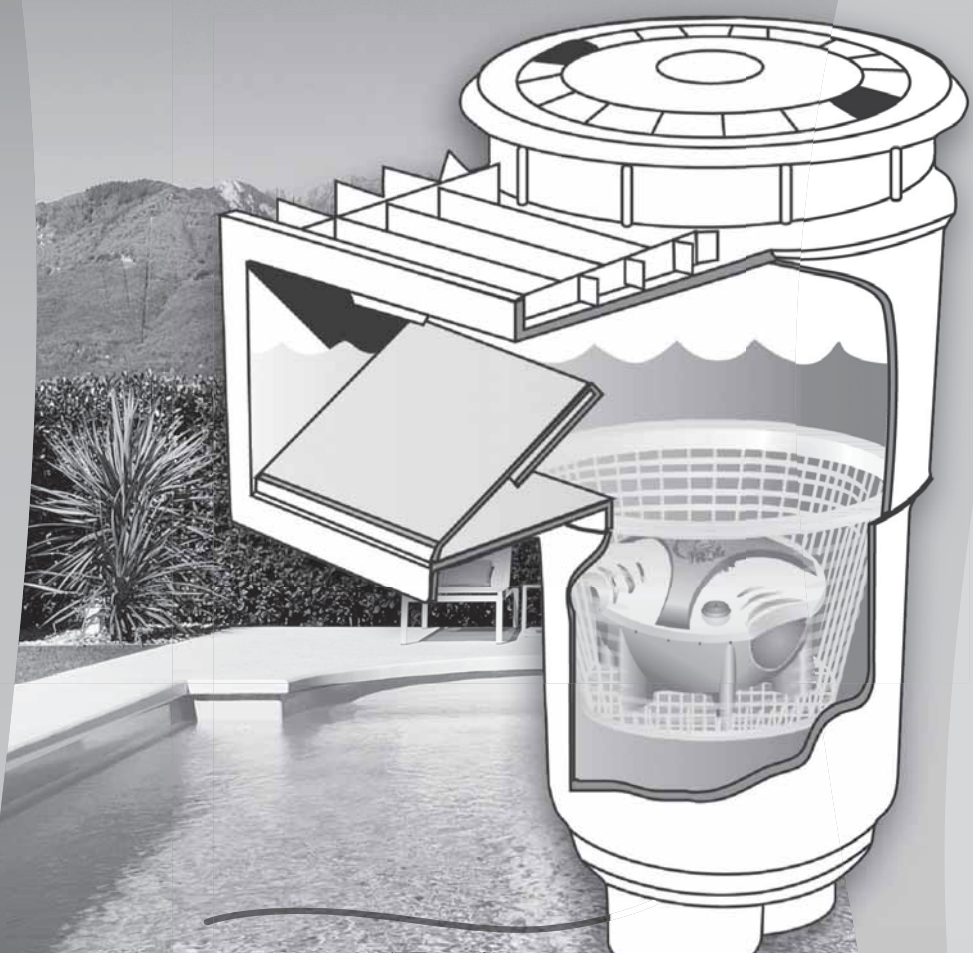
and Spa Association agreed to support the bill in part due to language CPSA added creating one statewide standard. Under current law, the one barrier requirement could be increased by local Ordinance. The Governor signed this bill into law.

Lastly, two bills, AB 1668 and SB 606, which would have provided statutory authority to implement the Governor's Water Plan – Making Water Conservation a Way of Life, were not acted on this session, but will be two-year bills eligible for consideration in 2018. Both of these bills have potential adverse effects on the swimming pool and spa industry. Both bills allow for the establishment of residential outdoor water quotas that could have an adverse effect on swimming pool and spa construction in California in the next few years.

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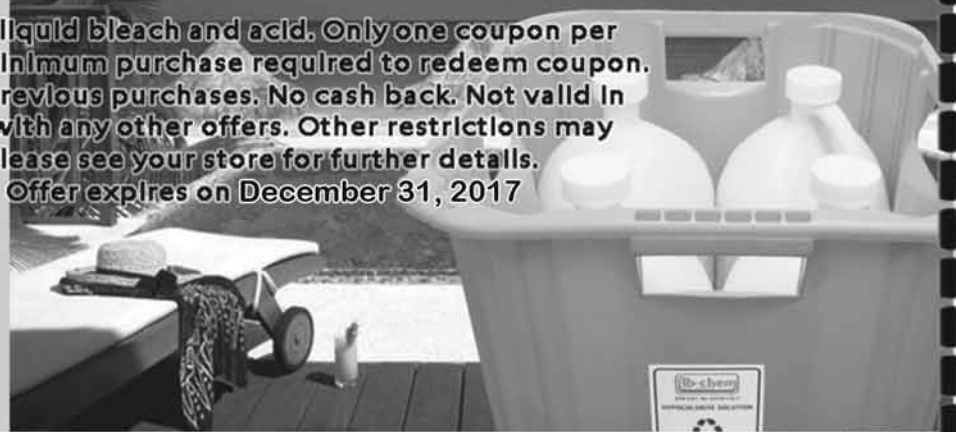
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Photo L-R: Nic Benny and Josh Bordelon of Jandy/Zodiac, Brian Duncan, Phil Gelhaus, Carole Dittmer and Jessica Dittmer of FPSIE. (Photo credit- Carrie Dibrell, Service Industry News)

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- ▶ Nearly 50% of Americans are afraid of water.
- ▶ Drowning is the leading cause of death in children ages 1-5 years.
- ▶ 3800 drowning deaths and 5700 near-drowning related injuries each year.
- ▶ The CDC reports an 88% reduction in drowning risks in children ages 1-4 if they learn to swim.

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What to do after wildfires

Continued from page 4

and deck areas as well as all equipment connections.

In Conclusion:
• Use extreme caution in areas where wildfires are active.

• Always check ahead of time with emergency management personnel before attempting to enter neighborhoods where fires have been.

• Wear smoke protection when

necessary (breathing mask and goggles).

• Remember that wildfires can move fast and change course in seconds it is best to stay out of the area.

• Shock, floc, enzyme, phosphate removal and algae prevention are all good remedial treatments once the fires are gone.

• Check and inspect all equip-

ment thoroughly during the clean up process. Filters may need to be backwashed and cleaned frequently during this time.

• Ensure that pools equipped with firehose pumps also have hydrostatic relief valves to prevent popping from rapid draining.

*Most firefighting suppressants such as those dropped from the air contain phosphate

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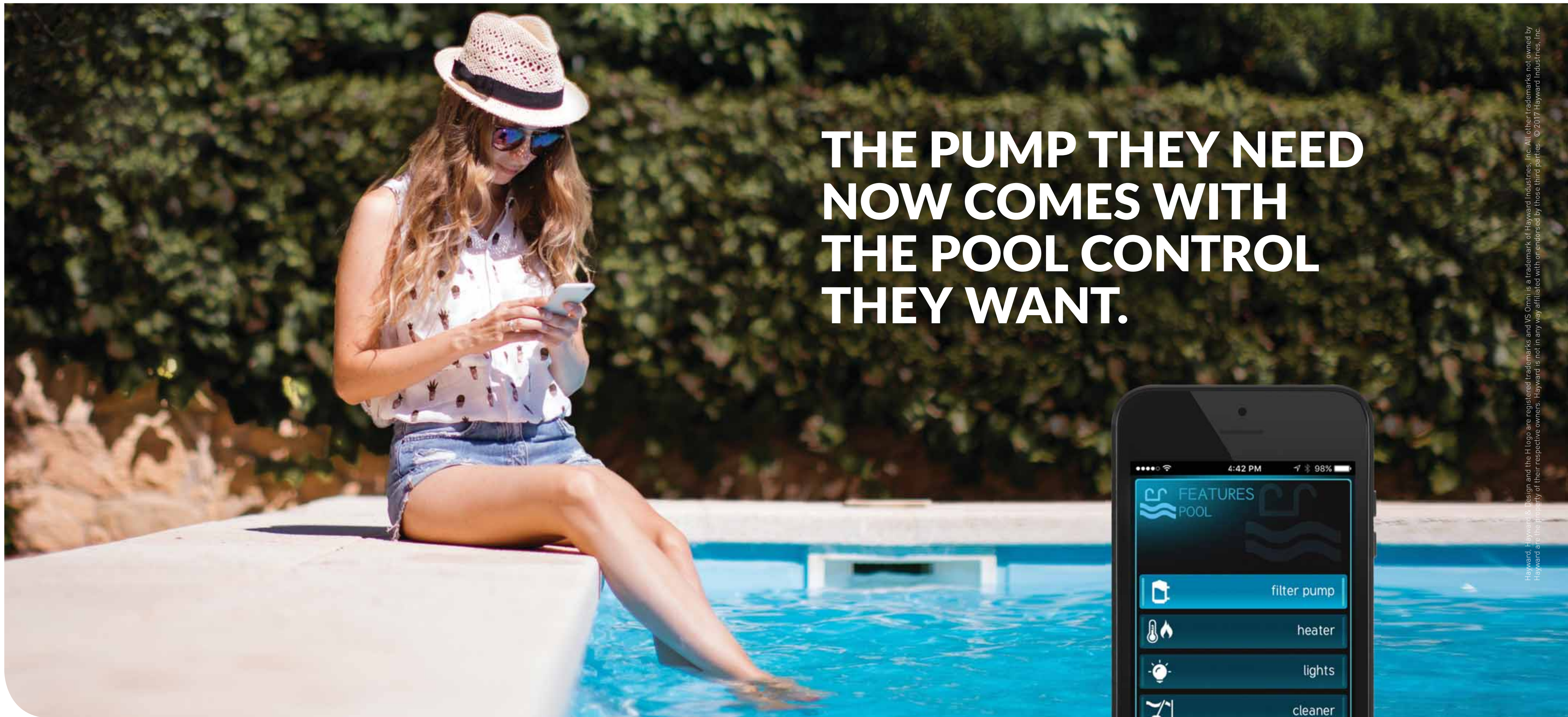
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Step Into Swim laps the world in 2017

The National Swimming Pool Foundation's® (NSPF®) Step Into Swim™ Campaign swam a great length this summer! Today NSPF celebrates #GivingTuesday by giving thanks for the gift of swimming so generously provided through the contributions of industry leaders and the commitment of local learn to swim programs.

"We've gone around the world to help the industry fund local programs," began NSPF CEO, Thomas Lachocki, Ph. D. "An increasing number of leaders are experiencing the joy of giving locally and creating more swimmers who use and enjoy local pools."

More than \$75,000 was donated to Step Into Swim (SIS) in 2017, and the recipients are excited to report on how their clubs and organizations benefited from the funding they received.

170 Angels of America's Fallen (AOAF)

AOAF partnered with NSPF to create Lesson's from Lylah, a program to help children of fallen military and first responders recover



from their loss of a parent through swimming. AOAF engaged 170 children in swimming activities, 100 of whom were waitlisted and would otherwise have continued suffering invisible wounds with no outlet. Most of the children choose to stay in water sports once they are fully enrolled.

16-year-old Jesenya lost her ARMY father in action in 2006. Her mother is bedridden with long-term illness, while Jesenya has multiple brain tumors. Jesenya was losing her balance and mobility, but being in the water helped her find a painless recreational activity:

"Swimming allows me to feel almost pain-free, even if it is short-lived. It also improves my endurance and reduces fatigue. People do not realize the positive impact that swimming has on the body physically, and mentally, as well—it is a great stress reliever. Thank you, again, for giving me this opportunity."

20 Jewish Community Centers (JCC)

Research shows that children with autism spectrum disorder and other special needs flourish in aquatic settings, and JCC swim academies utilized funding to prove



it. Said one parent, "Michael warmed up to the pool and went from putting his feet to then his entire body in the water and enjoying the pool! He was able to walk around the pool, splash, and perform wall kicks. I'm so proud of him, and happy to see how he has progressed."



14 Local Swim Programs Through Master Pools Guild (MPG)

Master Pools Guild directed their contribution to programs in the local areas of 14 MPG members around the world. Step Into Swim funding taught thousands of children to swim in Australia, India, Vancouver, BC, Alabama, California, Florida, Hawaii, Louisiana,



Maryland, Ohio, Oklahoma, South Carolina, and Texas! Pictured is recipient Nisha Millet Academy, Bangalore, Karnataka, India.

"Drowning is a local issue, and learning to swim is the local solution," began Dick Covert, MPG Executive Director, and SIS Committee Member. "We have gone to great lengths to fund children's

Continued on page 18



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IPSSA exhibits at the 2017 PIE Show



Step Into Swim

Continued from page 17

programs close to member communities.”

27 New York State Parks

Locations

New York State Parks utilized SIS funding to continue growing their state-wide learn to swim program. They offered hundreds of classes for all ages and levels at 27 locations across the state. 3,000 children in New York learned to swim this summer!

SwimToday

USA Swimming’s join a swim club initiative SwimToday continues to grow the sport of swimming. The SIS funding was allocated to the SwimToday marketing initiative, which was a key aspect of their

acquiring 105,200 new year-round members, for a total of 354,036 members in 2017 to date!

9 YMCA’s

YMCA’s around the country

utilized funding to teach hundreds of children Safety Around Water, a program designed to reduce children’s risk of drowning. One of the participating YMCA’s, Palomar

Family YMCA in Escondido, California, reports 100 children grades 1-5 participated in their program. The children represent a fragile community with a population that is 96% socioeconomically disadvantaged and whose families do not have the ability to pay for swim lessons. YMCA of Virginia’s Blue Ridge reported over 2,000 2nd graders participated, 53% of whom were identified as non-swimmers and high risk for drowning. SIS funding provided the life-saving opportunity of learning to swim for children who would not otherwise have the opportunity.

NSPF would like to extend a very big thanks to all the organizations and individuals who have donated to Step Into Swim! Industry leaders around the world



have joined the campaign to give the gift of swimming, a gift that keeps on giving for a lifetime. Join them today, and be a part of the movement that is reducing the risk of drowning and increasing healthy physical activity, all while growing the industry. Visit www.stepint swim.org/donate.



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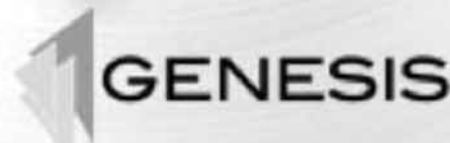


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Industry Partners

Examining pump and filter efficiency

Continued from page 8

to achieve turnover times of exactly six hours, even if the filter is dirty. This allows motor speed, power and energy to be reduced during times when the filters are clean, instead of sizing the pump to assume worst-case operating conditions.

Some VSPs have built-in, constant-flow software, which maximizes the advantages these pumps

have to offer, as it will automatically adjust its speed to deliver the required flow rate for each programmed task. For instance, to achieve the maximum laminar height of 7ft at a distance of eight feet, a water supply of 10 GPM with 16ft of head (measured at the laminar) is required to produce a smooth 6ft of arc water. As the filter accumulates dirt, however, the

pump will sense resistance in the circulation system and automatically ramp up its speed to continually provide the proper flow rate the water feature requires. With other pump types, the water feature will gradually throw a shorter arc of water as the filter gets dirtier.

No matter what type of pump is being used, however, slower pump speeds save energy. It also dramatically reduces noise levels as well as wear and tear on the other pool equipment the water flows through.

Eliminating sticker shock

Even with the advantages explained, some facility operators still find the cost of a VSP hard to justify. However, before ruling one out, the price of a new pump should be compared to the expense of doing nothing.

For example, an aquatic facility using a single-speed pump may have operational costs of up to \$900 per year. After five years, the facility will have spent \$4,500 to operate the pump. Comparable operational costs for a facility with a well-designed circulation system that uses a VSP, however, may be as little as \$200 per year. During the same five-year period, it will cost the facility less than a quarter of the amount it would have spent using a single-speed pump. Cost savings will continue to multiply the longer the VSP is used. (Costs and savings will vary by region). The initial cost of a VSP can typically be recouped during the second year of operation.

With the substantial energy-use rebates that some local power companies offer, in conjunction with the savings in daily operational expenses, some end-users are getting back approximately 50 per cent of the pump's cost in less than a year.

Upgrade circulation systems in commercial renovation projects


Swimming pools are often designed without full consideration of the system's fluid mechanics. For instance, a pool with a large pressure drop or an oversized pump will not operate at peak efficiency. Typically, this will not create any problems for the facility other than the fact it is wasting energy unbeknownst to the facility manager.

To ensure the swimming pool operates efficiently, the first place to start is with a properly designed circulation system. Each component in

Continued on page 24

'Green' circulation check-list

1. Replace pool pump with an energy-efficient unit.
2. Consider a variable speed pump (VSP). VSPs with permanent magnet motors and digital controls can save up to 90 per cent in utility costs compared to one- or two-speed pumps with induction motors.
3. If using an energy-efficient one- or two-speed pump, make sure it is sized to the pool's requirements.
4. Reduce run time or speed to lower energy use.
5. If using a one-speed pump, reduce filtration run time. In general, water needs to be circulated through the filter once every 6 hours for most commercial applications.
6. If using a two-speed or VSP, use the lowest speed to appropriately circulate the water. Reducing speed saves more energy than reducing run time.
7. Run the pool's filtration system during off-peak hours when electricity demand is lower (generally between 8 p.m. and 10 a.m.). Install a timer or control system to automate hours of operation.
8. Keep intake grates clear of debris. Clogged drains require the pump to work harder.
9. To obtain maximum filtration and energy efficiency, backwash or clean the filter regularly, as required.



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Examining pump and filter efficiency

Continued from page 23

the system (i.e. piping, fittings, valves, filters, heaters, etc.) produces a pressure drop (friction loss), which the pump must overcome. The total pressure drop in the system is commonly referred to as total dynamic head (TDH). The larger the TDH, the greater the amount of power required to achieve a given flow rate. Some of the most common methods used to reduce TDH include:

1. Increasing pipe diameter.
2. Reducing pipe length.
3. Reducing the number of sharp bends and turns in the circulation system (piping).
4. Increasing the size of pool return outlets.
5. Increasing the filter size.
6. Increasing the diameter of backwash (or other) valves when present.

Remember, not only will the facility reduce its energy consumption to save costs, it will also likely receive sizeable rebates from local utility companies for using energy-saving technology in the pool's circulation system. Be sure to consult the local utility company before embarking on the project.

Pentair offers incentive program for IPSSA

By Steve Zorn
Steve Zorn is California regional sales manager for Pentair.

All of us at Pentair Aquatic Systems appreciate the support of the IPSSA membership. We are pleased to offer IPSSA a rebate incentive based on the individual product purchases of each member.

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

In order for IPSSA to receive payment each member must register individually on the Pentair- IPSSA Incentive Program Registration Form (available on the members-only page of www.ipssa.com). 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 dates reflect purchases made from October 1 thru September 30, 2018.

This program does not affect any member purchases that may also currently be individually enrolled in our PIP program.

If dealers have any questions regarding the program, please have them dial 800-693-0171 and speak with their Program Coordinator.

Jason Lehmann, past Region 12 director, commented, "This partnership is a perfect match between the largest swimming pool service organization and the largest manufacturer of pool products. The funds generated will be used for IPSSA's continuing education and research programs."

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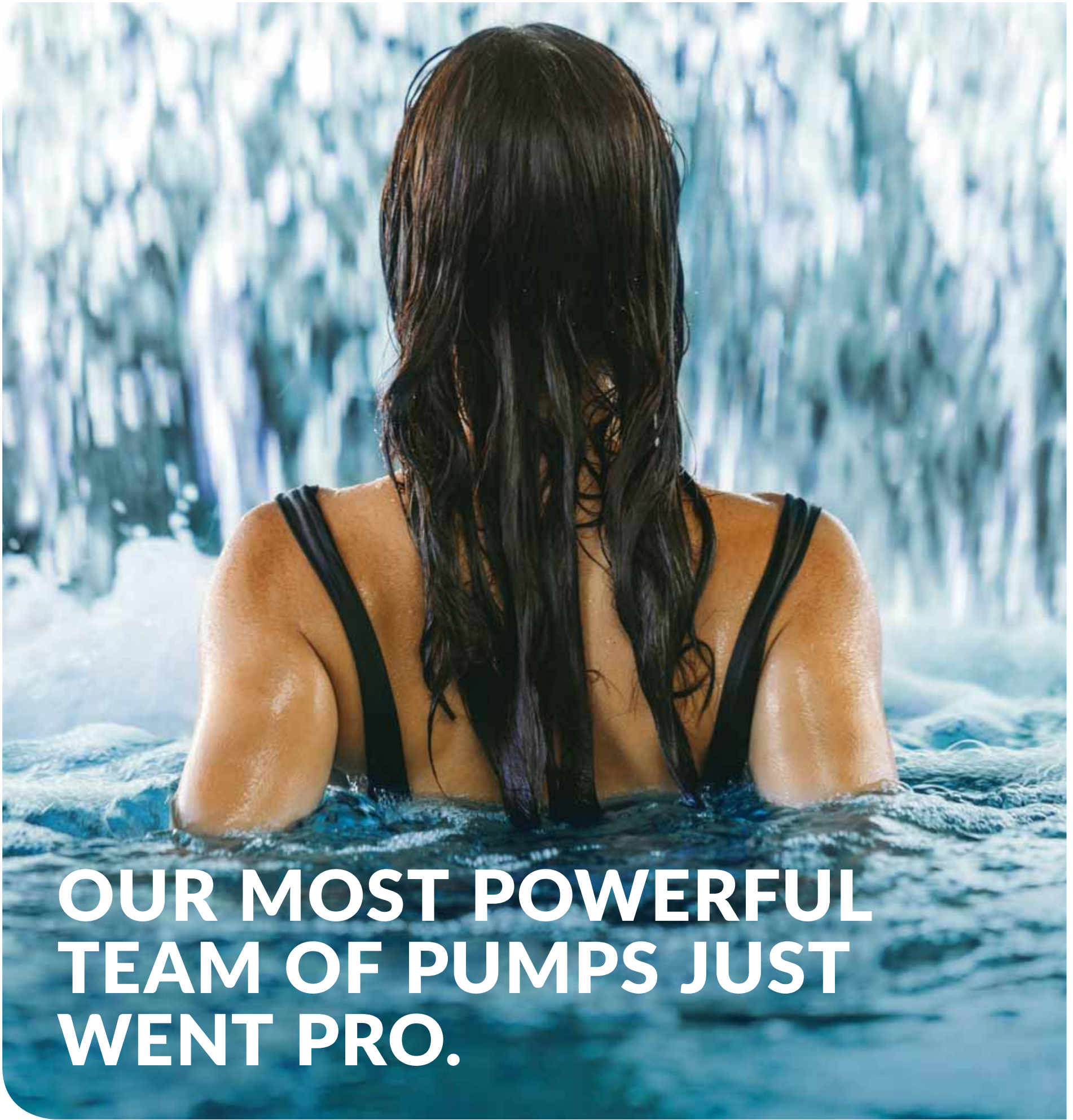
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 Chapter treasurers contact: ipssafinancial@cramercpa.com

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B.O.R.D. Member: Brian Duncan
 (925) 370-6675
 E-mail: brian@pppsinc.com

CAPITAL VALLEY: (Sacramento): First Wed., 7 p.m.
 VFW, 8990 Kruithof Way, Fair Oaks
 Pres. Scott Houseman (916) 638-4100
 scott@leisuretimepool.com

DELTA: (Stockton)
 Third Wed., 6:00 p.m., The Elks Lodge
 19071 N Lower Sacramento Road, Woodbridge
 Pres. Rick Plath (209) 456-1605
 service@rickspoolservice.com

EAST BAY
 Third Tues., 6 p.m., Pleasant Hill Community Center,
 320 Civic Drive, Pleasant Hill
 Pres. David Luthy (510) 435-5252
 townandcountrypool@comcast.net

EAST CONTRA COSTA
 Fourth Tues., 6:00 p.m., La Fuente Mexican Restaurant,
 642 1st Street, Brentwood
 Pres. Dale Vaughn (925) 759-3819
 dalevaughn1176@comcast.net

EL DORADO
 Second Thurs., 6:30 p.m., Shingle Springs Comm. Ctr.
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 Pres. Shawn Panico (916) 201-6245 / www.edipssa.com

ELK GROVE
 Second Wednesday, 7:00 p.m., Logan's Roadhouse,
 9105 W. Stockton Boulevard, Elk Grove
 Pres. Jerry Marquardsen (209) 747-4953
 jerryspoolservice@yahoo.com

GOLD COUNTY
 First Mon., 6:00 p.m., Sierra Grill Smokehouse,
 2515 Grass Valley Hwy., Auburn, CA
 Pres. Ryan Ruminson (530) 401-7346
 ryanruminson@sbcglobal.net

MODESTO CENTRAL VALLEY:
 Third Tues., 6 p.m.
 Perkos Restaurant, Kiernand Road & 99, Salida
 Pres. Albert Camarillo (206) 628-2717
 acspoolserv@yahoo.com

SACRAMENTO CITY
 Fourth Wed., 7:00 p.m., Plaza Hofbrau
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 Pres. Nathan Williams (916) 213-6889

TRACY: Fourth Thurs., 6 p.m.,
 Perko's Café, 1321 W. 11th Street, Tracy 95376
 Pres. Kevin McLard (209) 833-9200
 kevin_m@klmpools.com

WEST PLACER: First Thurs., 5:30 p.m., Strikes
 Bowling Alley, 5681 Lonetree Blvd., Rocklin CA 95765
 Pres. Kyle Bridgman (916) 801-9155
 jkpoolservices@gmail.com

REGION 2 (CENTRAL CALIFORNIA)
B.O.R.D. Member: Manuel Margain
 (559) 307-1072
 E-mail: manuelmargain@comcast.net

BAKERSFIELD: First Tues., 5:30 p.m.,
 Rusty's Pizza, 6675 Ming Ave, Bakersfield
 Pres. Beau Braisher (661) 332-4952
 braisherpools@gmail.com

CENTRAL COAST
 Second Wed., 7 p.m., Mtgs alternate between
 N/S Co., Contact chapter Pres. for info.
 Pres. Tom Mazzo (805)550-6709
 tmazzopoolguru@yahoo.com

CONEJO: Second Wed., 7:30 p.m., Alpha Water
 Systems, 725 Cochran Street #A, Simi Valley
 Pres. Dennis Van Sloten, (805)813-6154
 dvs10@live.com

CONEJO VALLEY
 Second Wed., 6:30 p.m., Superior Pool Products
 1200 Lawrence Drive #400, Newbury Park
 Pres. Michael Flanagan (805) 444-7960

FRESNO: Fourth Tues., 7 p.m.
 Roundtable Pizza at First & Bullard, Fresno
 Pres. Norm Carpenter, (559) 217-1228
 ipssafresno@gmail.com

SANTA BARBARA
 Second Mon., 6:30 p.m., Rusty's Pizza Parlor
 232 W. Carrillo, Santa Barbara (downtown)
 Pres. Joe Burich (805) 451-1963
 mericks2001@yahoo.com

VENTURA: Third Tues., 7 p.m.
 Poinsettia Pavilion, 3451 Foothill Rd, Ventura
 Pres. Max O'Brien (805) 794-6270
 gotomax@att.net

VISALIA: Third Wed., 6 p.m.
 Amigo's Cantina, 5113 W. Walnut Ave., Visalia
 Pres. Roman Gomez (559) 992-5779
 romangomez1251@yahoo.com

REGION 3 (NORTH L.A. COUNTY)
B.O.R.D. Member: Terry Snow
 (909) 982-9962
 E-mail: tls.pools@verizon.net

ANTELOPE VALLEY: Second Monday, 6 p.m.
 SCP Antelope Valley, 4514 Runway Dr., Lancaster
 Pres. Steven Polovina (661) 236-6095
 spgotj85@yahoo.com

DIAMOND BAR
 First Thurs., 7:00 p.m., Oak Tree Lanes, Diamond Bar
 Pres. Johnny Hernandez (626) 833-7456
 justpools626@yahoo.com

FOOTHILL: Third Thurs., 7:00 p.m.
 849 Foothill Blvd. #4, La Cañada
 Pres. Raul Fernandez (818) 378-9231

SAN FERNANDO VALLEY
 Third Wed., 7:30 p.m., Canoga Bowl
 20122 Vanowen, Canoga Park
 Pres. Blaine Enbody (805) 529-7562

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 First Tues., 7 p.m., Canoga Bowl, 20122 Vanowen,
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 Pres. Eric Nielson (818) 710-1628
 willowcreekpools@gmail.com

SAN GABRIEL VALLEY
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 PEP, 1862 Business Center Dr., Duarte, CA 91010
 Pres. Brian Nies (626) 536-2008
 brian@propoolm.com

SANTA CLARITA VALLEY
 First Thurs., 7:00 p.m.
 Vincenzo's Pizza, 24504 1/2 Lyons Avenue, Newhall
 Pres. Kent Simpson (661) 373-9901

REGION 4 (SOUTH L.A. COUNTY)
B.O.R.D. Member: Adam Morley
 (310) 493-3565
 E-mail: adam@paradisepools.biz

CENTRAL LOS ANGELES
 Second Mon., 6:30 p.m., Han Woo Ri Presbyterian
 Church, 1932 S. 10th Ave, Los Angeles
 Pres. Juno Yi (323) 850-8118
 juno8118@gmail.com

EAST LONG BEACH
 Second Tues., 6:30 p.m., Ecco's Pizza,
 2123 N. Bellflower Blvd, Long Beach
 Pres. Bill Rothwell (562) 425-8249
 poolboy1950@yahoo.com

SOUTH BAY
 Second Wed., 7 p.m., American Legion Hall
 412 S. Camino Real, Redondo Beach
 Pres. Brad Jones, (310) 880-7665
 aaapools@verizon.net

WESTSIDE
 Second Tues., 6:30 p.m., American Legion Hall
 5309 S. Sepulveda, Culver City
 Pres. Rick Haro (310) 204-4327
 rick@haropools.com

WHITTIER: First Wed., 7 p.m.
 Superior Pool Products in Santa Fe Springs
 Pres. Grant Hucko (714) 240-2099
 hucko@sbcglobal.net

REGION 5 (ORANGE COUNTY)
B.O.R.D. Member: Michael Kei Black
 (714) 891-0351
 E-mail: mblackels@netzero.com

ANAHEIM
 Third Wed., 6:30 p.m.
 Roundtable Pizza, 12829 Harbor Blvd., Garden Grove
 Pres. Cal Pratt (949) 230-7462

CENTRAL ORANGE COUNTY
 Last Tues., 7 p.m., Coco's, 14971 Holt Ave., Tustin
 Pres. Mark Harrison (949) 874-8234
 maharrison16@yahoo.com

DANA POINT
 Second Tues., 6 p.m., Coco's, Crown Valley and I-5
 Pres. Cliff Gross (949) 587-9773
 cliffgross@cox.net

MISSION VIEJO
 First Tues., 6 p.m.
 Claim Jumper, 27845 Santa Margarita Pkwy
 Pres. Tracy Simmons (949) 702-3545
 acmepoolcare@sbcglobal.net

NORTH ORANGE COUNTY
 Second Wed., 7 p.m., Graziano's Italian Restaurant,
 17487 Imperial Highway, Yorba Linda
 Pres. George Bonilla (714) 349-3326
 gbpsinc@gmail.com

ORANGE COAST
 Last Monday, 5 p.m., Carrow's Restaurant
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 Pres. Tom Honrath (714) 642-5018
 thonrath@hotmail.com

ORANGE COUNTY #9
 Second Wed., 7 p.m., Dad Miller Golf Course
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 Pres. Rob Tobias (714) 812-7993

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 Last Tues., 6 p.m., Lone Star Steakhouse,
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 Pres. Scott Kather (714) 742-9597

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 Pres. Ken Tipton (562) 430-8515

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 Third Tues., 6:30 p.m., Superior Pool Products,
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TUSTIN/IRVINE
 Second Tues., 6:00 p.m., PSOC Waterline Technologies,
 220 N. Santiago Street, Santa Ana
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 First Wed., 6:45 p.m., Lampost Pizza,
 21480 Yorba Linda Blvd. #D, Yorba Linda CA
 (call president to confirm mtg time).
 Pres. Jaime Aranda, (714) 746-5138
 jaimearanda@sbcglobal.net

REGION 6 (INLAND EMPIRE)
B.O.R.D. Member: John Dixon
 (951) 316-1675
 E-mail: waterwhisperer1@verizon.net

CORONA: Second Tues., 7:00 p.m., Marie Callenders
 160 E. Rincon St. (at Main St.), Corona
 Pres. Dave Berg (909) 674-1556 / djpoolguy@msn.com

HEMET: Third Wed., 6:00 p.m.
 Shooters, 121 E. Florida Ave, Hemet
 Pres. John Bettencourt (951) 925-2442
 bettencourt@msn.com

MENIFEE VALLEY
 First Wed., 7 p.m., at My Buddies Pizza
 2503 E. Lakeshore Drive #A, Lake Elsinore
 Pres. Renee Marier, (951) 285-9672
 mangopoolnsa@verizon.net

ONTARIO/ RANCHO CUCAMONGA
 Second Tues., 7 p.m., Location varies,
 please contact chapter president for more info.
 Pres. Ron Goodwin (909) 989-0406
 good2win@msn.com

PALM DESERT
 Third Thurs., 6 p.m./7 p.m., please check with pres.
 Sloan's, 81539 US Hwy 111, Indio CA
 Pres. Matt Kauber (760) 702-0160
 salernopools@yahoo.com

PALM SPRINGS
 First Wed., 5:00 p.m.
 Superior, 5700 Indian Springs Rd, Palm Springs
 Pres. James Elliott (760) 413-0463

REDLANDS: Second Tues., 6 p.m.
 Hickory Ranch, 32971 Yucaipa Blvd., Yucaipa
 Pres. Bill Brooks (909) 553-5780

RIVERSIDE:
 First Tues., 6:00 p.m., Cask N Clever,
 1333 University Ave., Riverside
 Pres. Nathan Smith (972) 296-7946
 info@riversidepools.com

TEMECULA/MURRIETA
 Third Wed., 7 p.m., Pat & Oscar's
 29375 Rancho California Rd., Temecula
 Pres. Jack Delaney (951) 674-6318

REGION 7 (SAN DIEGO COUNTY)
B.O.R.D. Member: Joe Lukacik
 (619) 561-8587
 E-mail: joe.sunpools@yahoo.com

CARLSBAD: Third Wed., 7 p.m.
 El Rancho Restaurant, 1565 N. Santa Fe, Vista
 Pres. David Talbot (760) 845-6863

ESCONDIDO
 Third Wed., 6:30 p.m., Call for location.
 Pres. James Leisten (760) 737-3058
 jim@blueribbonps.com

NORTH COUNTY COASTAL
 Third Tues., 6:30 p.m.
 Brett's BBQ, 1505 Encinitas Blvd., Encinitas
 Pres. Jordan Nelson (760) 753-4996
 jordan1111@gmail.com

RANCHO DEL MAR
 Third Mon., 5:30 p.m., Tio Leos
 3510 Valley Centre Drive, San Diego
 Pres. Joshua McKee (858) 337-4482
 josh@makaipools.com

SAN DIEGO
 Third Wed., 7 p.m., Admiral Baker Clubhouse,
 2400 Admiral Baker Road, San Diego
 Pres. Michael Harris (619) 395-6700
 barrowpoolsd@gmail.com

SAN DIEGO EAST COUNTY
 Third Tues., 6 p.m.,
 Superior Pool Products, 1973 Friendship Dr., El Cajon
 Pres. Berny Sweeney (619) 244-0496
 bernypoker@hotmail.com

SAN DIEGO METRO
 Fourth Thurs., 7:00 p.m.
 Coco's, 1025 Fletcher Parkway, El Cajon
 Pres. Mike McCourtney (760) 788-0823
 sunrisepools1@hotmail.com

REGION 8 (SOUTHWEST)
B.O.R.D. Member: Mike Lee
 (480) 786-0687
 E-mail: mountainsidepools@mac.com

EAST VALLEY
 Third Thurs., 5:45 p.m., Superior Pool Products
 2350 W. Broadway Rd. #110, Mesa
 Pres. Steve Ward (480) 213-0481
 wardspool@yahoo.com

HENDERSON:
 First Wed., 7 p.m., Hooters,
 10430 S Eastern Ave, Henderson, NV 89052
 Pres. Forrest Owen (702) 372-7200, poolboys@cox.net

IPSSA VIPS: Third Wed., 7:00 p.m.
 Elk's Lodge #335, 14424 No. 32nd St., Phoenix
 Pres. Joe Mischik (602) 290-5547

NORTH PHOENIX
 Third Tues., 7 p.m., SCP
 18201 N. 25th Avenue, Phoenix AZ 85023
 Pres. William Goossen (623) 580-9802
 goosse-man@cox.net

NORTHWEST LAS VEGAS
 First Thursday, 7:00 pm
 Joey's Bar & Grill, 7081 W. Craig Road, Las Vegas
 Pres. Robert Fazio, (702) 591-1624

SCOTTSDALE
 Third Mon., 6:00 p.m., Pool Water Products,
 20810 N. 25th Place, Phoenix
 Pres. Kurt Schuster (602) 488-7335

TUCSON:
 Third Wed., 6:30 p.m.
 Superior Pool Products, 4055 N. Runway Drive.
 Ken Sanders (520) 429-6959

WEST VALLEY
 First Wed., 7:00 p.m., Cloud Supply
 1100 N. Eliseo Felix Way, Avondale
 Pres. Patrick Pace (623) 853-6859

WESTERN LAS VEGAS
 First Mon., 6:30 p.m. (excl. holidays)
 Vietnam Vets Hall, 6424 W. Cheyenne, Las Vegas
 Pres. Linda Cross 702-524-8453
 ipssalindacross@gmail.com

REGION 9 (TEXAS)
B.O.R.D. Member: Becky Clayton
 (210) 240-3121
 E-mail: becky.clayton@yahoo.com

AUSTIN: First Tues., 6 p.m., Cherry Creek Catfish Co.
 5712 Manchaca Rd, Austin
 Pres. Keith Timm (512) 636-3750
 keith@acuaticoinc.com

CLEARLAKE: Fourth Tues., 7:00 p.m.,
 Rudy's BBQ, 21361 Gulf Fwy, Webster
 Pres. David Potts (208) 887-6486
 david@freedompools-texas.com

CORPUS CHRISTI
 First Thurs., 6:30 p.m., Schlitterbahn Upper Padre
 14353 Commodores Drive, Corpus Christi
 Pres. Michael Baker (361) 563-7655

HILL COUNTRY:
 Third Tues., Komal Latin Kitchen,
 2550 Hunter Rd., San Marcos, TX
 Pres. Jascha Wood (512) 216-7663

HOUSTON: Second Tues., 7 p.m.
 IHop, 11225 Katy Freeway, Houston
 Pres. Bryan Norris (713) 234-7649
 bryan@norrispools.com

NORTH AUSTIN: Second Tues., 6 p.m., Cedar Park
 Library, 550 Discovery Blvd.
 Pres. Ken Burrington (512) 673-6701
 aqualinepoolservice@gmail.com

NORTH HOUSTON: Third Tues., 7 p.m., IHop
 25619 Interstate 45, Spring
 Pres. David Harling (281) 256-7886
 bigstatepools@sbcglobal.net

SAN ANTONIO: First Mon., 6:30 p.m.
 Longhorn Café, 17625 Blanco Rd., San Antonio, TX
 Pres. Flash Rose (210) 241-7548
 flashpoolservice@sbcglobal.net

WEST HOUSTON: Second Mon., 7 p.m.
 Spring Creek BBQ, 21000 Katy Freeway, Katy
 Pres. Bill Williams (832) 593-6299
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REGION 10 (BAY AREA SOUTH)
B.O.R.D. Member: John Oldfield
 (888) 641-8047
 E-mail: joldfield@oldfieldinc.com

FREMONT: Second Mon., 6 p.m.,
 El Patio Restaurant, 37311 Fremont Blvd., Fremont
 Pres. Michael Murphy (510) 579-1448

MID-PENINSULA
 Last Tues., 7 p.m., Superior Pool Products
 2692 Middlefield Rd, Redwood City
 Pres. Justin Lindley (650) 863-6661
 justinyourpool@gmail.com

MONTEREY COAST: Fourth Wed., 7:00 p.m.,
 Holiday Inn Express, 1855 Main Street, Watsonville
 Pres. Terry Page (831) 297-2215
 pinnaclepoolandsa@sbcglobal.net

REDWOOD EMPIRE (Marin Co.)
 Third Wed., 7 p.m., Lucchesi Park, Petaluma Park,
 320 N. McDowell Blvd., Petaluma
 Pres. Darrell O'Neal (707) 544-3060
 dandmpool@aol.com

SANTA CLARA VALLEY: Third Thurs., 7:30 p.m.,
 Napredak Hall, 770 Montague Expressway, San Jose
 Pres. Joe McVeigh (408) 249-9731
 josplash@sbcglobal.net

SILICON VALLEY: First Wed., 6 p.m.
 Armadillo Willy's, 1031 N. San Antonio Road, Los Altos
 Pres. David Guslani (650) 333-1351
 dguslani@earthlink.net

TRI-VALLEY: Second Thurs., 6 p.m.,
 Meeting locations vary. Check with chapter president.
 Pres. Gregory Gordon (925) 922-2212
 gregpoolservice@gmail.com

REGION 11 (FLORIDA/GEORGIA)
B.O.R.D. Member: Derric Raymond
 (407) 908-4555
 E-mail: derric@raymondscustompools.com

GOLD COAST (Ft. Lauderdale area)
 Second Tues., 6:30 p.m., Wings Plus,
 9880 W. Sample Rd, Coral Springs
 Pres. Ana Labosky (954) 224-7733
 www.ipssagoldcoast.com;
 president@goldcoastipssa.com

MANASOTA (Bradenton/Sarasota)
 First Mon., 7:00 p.m., Call for meeting
 location and directions
 Pres. Todd Starner (941) 915-2135
 tstarner@tampabay.rr.com

NORTH GEORGIA
 Pres. Benjamin Decker (404) 405-0197
 ben@classicpoolsvc.com

OSCEOLA (Kissimmee/Orlando)
 Second Wed., 6:30 p.m.
 Fat Boy's Restaurant, 2512 13th Street, St. Cloud
 Pres. Diane Fowler (407) 460-6680
 poolady2001@gmail.com

PORT CHARLOTTE: Fourth Wednesday, 6:30 p.m.,
 Buffalo Wings & Rings, 1081 W. Price Blvd, North Port
 Pres. Ray Kurilivicius, (941) 743-2010
 ray@dartpoolsolutions.com

SARASOTA: First Tues., 6:30 pm
 Gecko's Grill & Pub, 351 N Cattleman Road, Sarasota
 Pres. Andy Homner (941) 330-5757
 andy@clearwavepoolcare.com

TREASURE COAST: Fourth Tues., 7:00 pm
 Duffy's Sports Bar, 6431 SE Federal Hwy, Stuart
 Pres. Allen Schroeder (772) 215-1884

REGION 12
B.O.R.D. Member: Neal Holt
 (972) 617-9877
 E-mail: poolguy713@gmail.com

DALLAS: Fourth Tues., 5:30 p.m., Tony's Diner
 3112 N. Jupiter Rd #307 Garland TX
 Pres. Eustaquio Portillo (214) 325-6746

FORT WORTH
 Third Tues., 6:30 p.m., La Playa Maya Restaurant
 1540 N Main Street, Fort Worth
 Pres. Tina Slagle (817) 991-0555

MID CITIES DFW: First Mon., 7:00 p.m.,
 SCP, 2107 Hutton Drive, Carrollton TX 75006
 Pres. Casey Gardner (469)835-5674

TARRANT COUNTY
 First Tues. 7 p.m., El Chico's Café
 7621 Baker Blvd., Richland Hills
 Pres. Will Ainsworth (817) 987-8580

WAXAHACHIE: Second Wed., 7 a.m., Denny's,
 408 Westchase Drive, Grand Prairie
 Pres. Tom Sheehy (214) 395-0143 / tsheehy@prodigy.net

Associate Members

For more information about our associate members, please visit their web sites. If company representatives are available to speak at chapter meetings, their topics and geographic availability is indicated.

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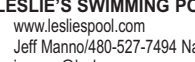
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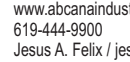
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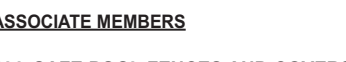
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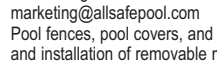
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