



# THE IPSSAN

Mission Statement: 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.

VOLUME XXV, NUMBER 1

January 2013

## How much free chlorine do you really need?

By Robert W. Lowry

If you look at any guideline or standard or check with any health code, you will see that almost all of them recommend a free chlorine (FC) level of 2.0 to 4.0 ppm.

This gives rise to the idea that if you measure free chlorine in the water and it is between 2.0 and 4.0 ppm then the water is OK or safe. It may or may not be. There is a way to know how much free chlorine you need in any pool.

The answer is 7.5% of the CYA level.

And here are the reasons why.

### Bacteria and Algae Reproduction

Bacteria take about 15 to 60 minutes to double in population under ideal conditions. Algae double in population in about 3 to 8 hours. The kill rate must exceed the growth rate for bacteria or algae. Specifically, that means killing more than half of the bacteria or algae in the time that it takes bacteria or algae to double in population. It is more difficult to kill algae than bacteria. Therefore it stands to reason that if we kill the algae we will have also killed the bacteria.

### HOCl and OCl<sup>-</sup>

Before discussing how much FC is needed let's review what happens to chlorine when it is added to water. When we add chlorine in any form to water, a rapid reaction takes place which produces hypochlorous acid (HOCl). Here is what happens when chlorine is added to water:

$Cl_2 + H_2O \rightarrow HOCl + HCl$   
chlorine and water forms hypochlorous acid and hydrochloric acid

A second reaction is nearly instantaneous: Hypochlorous acid (HOCl) produced by adding any type of chlorine dissociates (comes apart into its ions) according to the following equation:



hypochlorous acid dissociates into hydrogen ion and hypochlorite ion

HOCl is the killing form of chlorine in water. The pH of the water determines how much of the FC is in the HOCl and OCl<sup>-</sup> forms. When the pH of the water is low there is more HOCl. When the pH is high there is less HOCl. When the pH is 7.2, the HOCl is about 65% of the FC. At a pH of 7.5 the HOCl is about 48% of FC and at pH 7.8 the HOCl is about 32% of FC.

### It Takes a Small Amount of HOCl to Kill Algae and Bacteria

It doesn't really take much FC to kill bacteria and algae. The World Health Organization (WHO) suggests the minimum HOCl for disinfection is 650 mV at a pH of 7.5 which corresponds to about 0.011 ppm of HOCl. Other sources such as EPA and CDC claim that the minimum is 0.05 ppm HOCl. Therefore any amount of HOCl less than 0.011 ppm will not kill algae and an amount of HOCl between 0.011 and 0.050 ppm HOCl might kill

*Continued on page 22*



Golfers enjoying the day. This year \$18,580 was raised and donated to Soldiers' Angels.

### El Dorado IPSSA Chapter

## Golftoberfest was another huge success!

Held at Darkhorse Golf Club, Golftoberfest was designed to bring the pool industry together for a fun day of golf and ultimately a fundraiser for wounded veterans. This was their special five year anniversary with a record

breaking turnout that closed the course to golfers not in the tournament. This year they reached an amazing maximum number of players allowed by Darkhorse. The weather could not have been better and everyone had a fantastic time. Veteran and golfer George Kirbyson's daughter kicked off the tournament by singing the Star Spangled Banner. Another huge

attraction was World Long Drive Champion, Ryan Winther, who held a golf clinic before the tournament started, and crushed balls throughout the day for all the players. This year, mostly due to the support of the entire swimming pool industry, we raised \$18,580 that will be donated to Soldiers' Angels. The cumulative donations

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One of the great things about IPSSA is the underlying commitment to help others in the industry. After all, this association was created on the principle of sick route coverage.

But, many members go above and beyond sick route, helping other members and their communities. These are IPSSA Heroes.

Tell us your story, or let us know who has helped you. Email us at [info@ipssa.com](mailto:info@ipssa.com).

### Things to do in January

- Plan your year
- Evaluate and refine your business systems
- Take a vacation

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## IPSSA annual leadership seminar scheduled for February 2

February 2, 2013 is the date to save, for IPSSA's, annual leadership seminar at the Disney Paradise Pier Hotel in Anaheim, California.

Details on the leadership seminar have been mailed to all chapter presidents. Everyone is welcome and encouraged to participate in this excellent program, designed to give you all the information you need to run a successful chapter.

Even if you've attended before, there will be new information presented that will be of value to your chapter. Please note, however, **that all newly elected chapter presidents and treasurers (those who were elected since leader-**

**ship 2012) are required to attend.** Otherwise, your chapter will be fined \$500 for each officer who fails to attend. Even if you served as president or treasurer before, if your chapter held an election this past year and you were elected, you are required to attend.

Following the leadership banquet will be a casino fundraiser benefiting APEC, SPEC and the IPSSA scholarship fund, plus the always fun leadership banquet. This years banquet will feature a live band and dancing.

Registration details are posted at [www.ipssa.com](http://www.ipssa.com) under the Resources and Links tabs.

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**THE IPSSAN**

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Deadline for submission of articles is the 15th of each month. Material submitted late will be considered for the following month.

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**Lance Fitzgerald wins the November Education Corner quiz**

Lance Fitzgerald, a member of the San Fernando Valley IPSSA chapter, was selected randomly among all of the correct entries for the November Education Corner Quiz and will receive an IPSSA sports watch. All correct entries submitted during 2012 are eligible for a big drawing at the end of the year for more IPSSA logo items.

The correct answers for the November quiz are: 1) Chemicals are all that are required to produce safe, clear and pleasing water. A. True B. False. *The correct answer is B) False.* 2) You should compare test kit colors in direct sunlight. A. True B. False. *The correct answer is B) False.* 3) Total alkalinity controls pH and pH controls the killing power of the chlorine or bromine. A. True B. False. *The correct answer is A) True.* 4) The pH of the water determines how much HOCl and OCl- you have. A. True B. False. *The correct answer is A) True.*

**Calendar of Events**

- Jan. 10-11** **CPO Class**  
Superior Pool Products, Anaheim, California  
<http://www.anotherperfectpoolnews.com/cpo>
- Jan. 16** **HOTT Show**  
Phoenix Club, Anaheim, CA  
[www.hottshow.com](http://www.hottshow.com)
- Jan. 17-19** **Desert Pool and Spa Show**  
Phoenix Convention Center, Phoenix, Arizona  
[www.dps-show.com](http://www.dps-show.com)
- Jan. 24-25** **CPO Class**  
Zodiac Pool Systems, Vista, California  
<http://www.anotherperfectpoolnews.com/cpo>
- Jan. 26** **Region 7 Table Top Show**  
Four Points Sheraton, San Diego, California  
[www.region7tabletop.com](http://www.region7tabletop.com)
- Feb. 1** **IPSSA Board of Regional Directors Meeting**  
Disney Paradise Pier Hotel, Anaheim, California  
[info@ipssa.com](mailto:info@ipssa.com)
- Feb. 2** **IPSSA Leadership Seminar and Banquet**  
Disney Paradise Pier Hotel, Anaheim, California  
[info@ipssa.com](mailto:info@ipssa.com)
- Feb. 4-7** **Southeast Pool and Spa Show**  
Cobb Galleria Centre in Atlanta, Georgia  
[www.southeastshow.com](http://www.southeastshow.com)
- Feb. 13** **Inland Empire Pool Expo**  
University of Redlands, Redlands, California  
[www.inlandempirepoolexpo.com](http://www.inlandempirepoolexpo.com)
- Feb. 14-15** **CPO Class**  
SCP Distributors, Riverside, California  
<http://www.anotherperfectpoolnews.com/cpo>
- Feb. 15-16** **Orlando Pool and Spa Show**  
Orange County Convention Center, Orlando, Florida  
[www.floridapoolpro.com](http://www.floridapoolpro.com)
- Feb. 21-23** **Western Pool and Spa Show**  
Long Beach Convention Center, Long Beach, California  
[www.westernshow.com](http://www.westernshow.com)
- Feb. 21-22** **CPO Class**  
Western Show, Long Beach, California  
<http://www.anotherperfectpoolnews.com/cpo>
- Feb. 28 – March 2** **Southwest Pool and Spa Show**  
Henry B. Gonzales Convention Center, San Antonio, Texas  
[www.swpoolandspashow.com](http://www.swpoolandspashow.com)
- March 7-8** **CPO Class**  
Superior Pool Products, Anaheim, California  
<http://www.anotherperfectpoolnews.com/cpo>

**Dan Jonaitus wins a Basic Training Manual Part 1 – Water Chemistry!**

*Enter to win the monthly sweepstakes! Anyone can enter!*

Dan Jonaitus, from Scottsdale, AZ was selected randomly among all of the correct entries for November and will receive an IPSSA Basic Training Manual Part 1 – Water Chemistry.

The correct answer for the November sweepstakes question is: If you are in a state where we have chapters established, but there are no chapters in your area, how many people does it take to start a new chapter? Answer: Ten people.

**Enter To Win:  
Basic Training Manual  
Part 1 – Water  
Chemistry!**



We have a number of training manuals with slight imperfections on the outside cover that we are giving away. Simply fill out the form below and mail or fax it in for your chance to win. The winner will be randomly selected from all correct entries.

Answer the following question:

Does the IPSSA scholarship fund offer scholarships for CPO courses? (The answer can be found on [www.ipssa.com](http://www.ipssa.com)).

**There will be a different question each time we have a book to give away. Check in next month!**

Name \_\_\_\_\_  
Address \_\_\_\_\_  
City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_  
Telephone Number (\_\_\_\_) \_\_\_\_\_  
Correct Answer \_\_\_\_\_

Mail Entry to: Enter To Win  
10842 Noel Street, #107, Los Alamitos, CA 90720 Or Fax to: (888) 368-0432  
Entries for this month must be received by **FEBRUARY 20, 2013**

**\* WIN AN \*  
IPSSA  
Sports Watch**

**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 an IPSSA watch. 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 **FEBRUARY 20, 2013**.

1. A pool is said to be "in balance" when the pH, alkalinity, calcium hardness, TDS and temperature are all within the recommended ranges.  
A. True  
B. False
2. The basic things that we need to test in the water are:  
A. pH and alkalinity  
B. Sanitizer and calcium hardness  
C. Sanitizer and alkalinity  
D. All of the above
3. A gallon of muriatic acid (hydrochloric acid 31.4%) is equal to how many pounds of dry acid (sodium bisulfate)?  
A. 2.5  
B. 3.5  
C. 10.0  
D. 5.0
4. Total alkalinity does not affect the speed of pH change in the water.  
A. True  
B. False

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 FEBRUARY 20, 2013.**

**Enter to win**



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# Highlights of Nov. 3, 2012 IPSSA Inc. Board of Regional Directors Meeting

**PRESENT:** David Durkin, Region 1 Director; Charles Dudley, Region 2 Director; Elias Duran, Region 3 Director; Adam Morley, Region 4 Director; Jeffrey Theders, Region 5 Director; Nathan Smith, Region 6 Director; Joe Lukacik, Region 7 Director; Kurt Schuster, Region 8 Director; Jim Jacobsmeyer, Region 9 Director; Dick Nichols, Region 10 Director; Todd Starner, Region 11 Director; Amy Nijjar, Executive Director; Clint Cramer, CPA, Financial Office; Ray Arouesty, Arrow Insurance Service; Jason Briggs, Region 4 Director-Elect; Scott Peterson – Region 6 Director-Elect; Marc Cannon – Region 8 Director-Elect; Mark Lyons – Region 10 Director-Elect;

Jason Lehmann – Region 12 Director-Elect.

**GUESTS:** Phil Sharp, San Antonio chapter, Region 9; Ivan Vance, San Fernando Valley chapter, Region 3; Jerdy Mazienis, Westside chapter, Region 4; Steve Straehley, Pool & Spa News; Shannon Plues, Arrow Insurance Service;

**CALL TO ORDER:** The meeting was called to order at 10:27 a.m. by Dudley, followed by self introductions. A quorum was present.

**CONSENT AGENDA:** MSC to approve the consent agenda, which included minutes of the August 4, 2012 meeting.

**FINANCIAL REPORT AND CENSUS:** Cramer reported that

for the period ending September 30, 2012, there were \$424,350 in revenues and \$405,986 in expenses for the general fund, with a net surplus of \$18,364. Assets were \$694,296, liabilities were \$4,534 and equity \$689,762.

The Scholarship Fund took in \$15,066 revenues (including interest) and had \$9,548 in disbursements, with a net balance of \$201,028.

The reserve fund balance is now \$448,054.

The September 30, 2012 membership census shows a total of 3,539 members.

The financial office was asked to do an exit survey for dropped members and forward to the regional directors and executive office monthly.

**UNFINISHED BUSINESS:** Nothing to report.

**NEW BUSINESS:** MSC to add to the agenda under Expansion the creation of a marketing committee and add to each committee the addition of committee members.

**ADMINISTRATION:** Nominations for the Terry Cowles Award were reviewed. By secret ballot, Jim Ciccone was selected to receive the award.

A performance evaluation for Lester Management Services was given.

**BYLAWS:** MSC to approve Scott Peterson as a member of the Bylaws Committee.

sk of creating a policy and procedure regarding funds in a chapter dissolution was sent back to committee.

A membership fast track will be voted on in February if the attendance policy in bylaws is approved to move to standing rules by the membership.

**EDUCATION:** MSC to approve Mark Lyons and Scott Peterson as members of the Education Committee.

MSC to amend Policies and Procedures regarding leadership seminar travel funds: IPSSA will provide up to \$2,000 for each chapter, if a financial hardship exists, funds to be approved by regional director and CFO.

Education Committee is collecting more information on leadership training modules and videotaping the leadership seminar.

MSC to finance a Florida 60 Hour course at \$43,000.

**ENTERTAINMENT & TRADE SHOWS:** MSC to approve Jason Briggs, Mark Lyons and Marc Cannon as members of the Entertainment Committee.

The next BORD meeting/Leadership Seminar will take place on February 1, 2013 at the Disney Paradise Pier Hotel in Anaheim CA.

BORD meeting locations in 2013 will take place in Regions 5, 8, 1 and 4.

**EXPANSION:** MSC to approve Jason Lehmann, Mark Lyons and Scott Peterson as members of the Expansion Committee.

MSC to approve the Treasure Coast chapter.

MSC to approve the North Austin chapter upon completion of paperwork.

MSC to create an Expansion sub-committee called the Marketing Committee.

MSC to move the Website

Committee under the Marketing Committee.

MSC to approve Jason Briggs, Jim Jacobsmeyer, Jason Lehmann and Mark Lyons as members of the Marketing/Website Committee. Current Website Committee members will be moved in under the Expansion Committee.

**FINANCE:** MSC to approve Jason Briggs as a member of the Finance Committee.

The proposed 2013 budget is still in progress.

**THE IPSSAN:** MSC to approve Marc Cannon and Jason Lehmann as members of the IPSSAN Committee.

**MEMBER BENEFITS:** MSC to approve Marc Cannon and Jason Lehmann as members of the Member Benefits Committee.

The committee is still working on the bulletin board of member benefits.

**OUTREACH:** MSC to approve Mark Lyons, Scott Peterson, Jason Lehmann and Marc Cannon as members of the Outreach Committee.

Nichols reported that the California Energy Commission was sent the motor survey in hopes of getting rebates on replacement motors.

Jason Lehmann reported on APEC.

**WEBSITE:** Refer to committee changes under the Expansion Committee

**NEXT BORD MEETING:** The next BORD meeting will take place February 1, 2013 in Anaheim CA.

**ADJOURNMENT:** The meeting adjourned at 3:29 p.m.

## WELCOME NEW MEMBERS!

**REGION 1 - El Dorado:** Nick Ferro... **Sacramento City:** William Vanhouten... **REGION 2 - Ventura:** Steven Ireland, Oscar Mayen... **REGION 3 - San Fernando Valley:** Louis Arkin... **REGION 4 - Central Los Angeles:** James Kim... **REGION 6 - Corona:** Wayne Rogers... **Menifee Valley:** Steve Guimarin... **Palm Desert:** Russell Jackson... **REGION 8 - Scottsdale:** David Ethell, Marcus Ong... **REGION 9 - North Austin:** Ryan Haring, Javier Lardone.



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'Resources'  
to find  
online  
training courses.

## Highlights of Nov. 3, 2012 IPSSA Management Company Board of Directors Meeting

**CALL TO ORDER:** The meeting was called to order at 9:22 a.m. by Dudley. A quorum was present.

**MINUTES:** MSC to approve the minutes of the August 4, 2012 meeting, as written.

**FINANCIAL REPORT:** Cramer reported that for the period ending September 30, 2012 there was \$182,871 in income, \$187,703 in expenses, with a net loss of \$4,832. Assets were \$779,333 liabilities were \$707,617, and equity \$71,715.

Cramer discussed that the 2013 budget is still in committee. He also discussed that the new credit card processing will save around \$6,000 a year in fees.

**INSURANCE REPORT:**

Shannon Plues reviewed claims. Ray reported that the three claim limit has changed and that a policy can be cancelled after any number of claims. He also reported that to continue the accident medical coverage in April 2013 the premium will increase \$2.50 per month to employers only. This coverage only covers regular members therefore employees will not be charged for this insurance.

MSC to take out a cyber liability and office insurance policy.

**UNFINISHED BUSINESS:** Nothing to report.

**NEW BUSINESS:** Nothing to report.

**ADJOURNMENT:** The meeting adjourned at 10:14 a.m.

## Financial office thanks chapters with prompt payments

The Financial Office thanks the following 34 chapters, whose members all paid promptly in November before second notices were required:

Region 1 – Capital Valley, Delta, East Contra Costa, West Placer

Region 2 – Bakersfield, Central Coast

Region 3 – San Gabriel Valley

Region 4 – Whittier

Region 5 – Anaheim, Huntington Beach, Orange Coast, Southwest, Tustin/Irvine

Region 6 – Palm Desert, Palm Springs, Temecula/Murietta

Region 7 – North County Coastal, Rancho Del Mar

Region 8 – East Valley, Las Vegas, North Phoenix, Northwest Las Vegas

Region 9 – Austin, Corpus Christi, Rio Grande Valley, Tarrant County

Region 10 – Fremont, Monterey Coast, Redwood Empire, Silicon Valley

Region 11 – Cape Coral, Osceola, Manasota, Sarasota

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The Brand the Pros Use

# CPSC Commission decision on Bee Safe Petition

**Dear Pool and Spa Community:**

On December 7, the U.S. Consumer Product Safety Commission voted 3 to 0 to deny a petition by BeeSafe Systems, LLC, requesting that its products, the BeeSafe Model 1 and the BeeSafe Model 2, be deemed an "other systems" under the Virginia Graeme Baker Pool and Spa Safety Act (the Act). BeeSafe's petition contended that their products would be equally effective as the five secondary systems in the Act.

The Act addresses entrapment hazards to bathers in public pools and spas due to the unseen forces generated by the water circulation system in these facilities. The Act requires that all drain covers in public pools and spas meet the requirements of ASME/ANSI A112.19.8 or the ANSI/APSP-16 2011 successor standard. The U.S. Consumer Product Safety Commission (CPSC) is the lead agency for enforcement of the Act.

The Act requires all single main drains, other than unblockable drains, be equipped with a secondary anti-entrapment device or system that is designed to prevent bather entrapment. Five secondary anti-entrapment devices or systems are enumerated in the Act for use in order to be in compliance with the law: (I) a safety vacuum-release system, (II) a suction-limiting vent system, (III) a gravity drainage system, (IV) an automatic pump shut-off system, and (V) drain disablement. The Act provides that "other systems" may be added to this list if they are "determined by the Commission to be equally as effective as, or better than [the five enumerated systems] at preventing or eliminating the risk of injury or death associated with pool drainage systems."

Staff compared the features of the five secondary anti-entrapment methods approved by the Act to the features of the BeeSafe products. A distinguishing feature of all of the approved systems is that they function by limiting the suction available to the drain cover. The BeeSafe products perform their function by denying bathers access to the suction outlet; therefore, staff considers these products to be primary, and not secondary, anti-entrapment devices.

Staff evaluated the design and the performance of the two products. Both BeeSafe products feature a removable center cover. This cover is removed in order to aid in winterizing the pool or to allow maintenance on circulation piping located beneath the product. When all parts are properly installed, both products effectively prevent all types of hazards addressed by the Act when used at their rated water flow rates. When this cover is removed, or if it is broken, it permits bathers to have direct access to the suction outlet. With such direct access, limb entrapment, suction entrapment, and evisceration are possible. It should be noted that many

primary entrapment-protection devices present the same hazards to bathers when their removable portions are not installed -- the hazards present when removable portions of the drain cover are missing are not unique to the BeeSafe products.

A factor for consideration is the current definition of "unblockable drain." The Commission's October 2011 unblockable drain revocation explicitly states: "... a blockable drain cannot be made unblockable by use of a cover

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# The HOTT Show

The HOTT Show will be held at the Phoenix Club on Wednesday, January 16, 2013. The hours will be the same: 3 PM-7PM. Please contact Bruce Butterfield at 951-870-8561 or e-mail him at [bruce.butterfield1964@gmail.com](mailto:bruce.butterfield1964@gmail.com) for more information.

As most of you know, the HOTT Show has been meeting since 1990. We attract over 60 vendors and 400 attendees each and every year. This year, we are seeking to add more diverse selection of vendors to make the experience even more enjoyable and valuable for both our vendors and attendees. We are in contact with some skin cancer screenings companies, chiropractic services and The Laker Girls have agreed to send two of their

cheerleaders to cheer up the Phoenix Club for us!

There will be food, door prizes, 50/50 drawings and much more. This year you will not have to be present to win!!

If you are an IPSSA member, many of the chapters (if not all) have joined, have a special sign up table and attendance at the show will count as a regular monthly meeting for you.

## Questions about Health Insurance?

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**Wednesday January 16, 2013  
Phoenix Club, Anaheim CA  
Exhibit Hall Open 3pm- 7pm**

# HOTT SHOW HANDS ON TABLE TOP

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# 2013 Hayward® Blu™ Suction Pool Cleaner

Hayward is pleased to announce the introduction of the new Hayward Blu suction pool cleaner, designed and priced for the Service Trade with delivery beginning January 2013.

Hayward Blu gives you easy, trouble-free operation, and because it's powered by your exist-

ing filtration system, you don't have the expense of an energy-consuming booster pump. Install the new Hayward Blu as part of the Totally Hayward® System, and you get the assurance of knowing you have a complete system, designed to work together for the best automatic opera-

tion and the cleanest pool possible.

Hayward Blu is a smart choice for all types of in-ground pools. Exclusive SmartDrive technology makes Hayward Blu faster and more efficient than any random style pool cleaner. Hayward Blu moves in a predetermined series of right and left turns to systematically provide more thorough coverage of your pool's surfaces. Discriminating pool owners will value Hayward Blu's ability to clean their pool in an intelligent manner. Compared to other suction cleaners, Hayward Blu's tech-

nology also allows for silent operation. You can enjoy a pleasant and peaceful pool environment even when Hayward Blu is hard at work.

### Hayward Blu Features and Benefits

Exclusive SmartDrive® — Programmed steering moves the cleaner silently in a predetermined series of turns for more thorough cleaning. It's powered by your existing filtration system so you don't have the expense of an energy-consuming booster pump.

• Advanced Suction Technology — Utilizes the pool's

existing filtration system.

• Silent Operation — No pulsating hoses or noisy parts, for a peaceful pool environment.

• Easy to use — Connects in less than 10 minutes to skimmer or suction port.

• Comes with 32 feet of hose.

• 1-year warranty

Please note this cleaner is a net price product, and does not qualify for any Dealer Rebates, Consumer Rebates, or Totally Hayward Points.

Applications: Cleans all residential pool surfaces, gunite, vinyl or fiberglass up to 20 x 40 ft

### 2013 Hayward Blu Model Numbers and Pricing:

Model Number	Description – Platform	UPC	Carton Quantity	Carton Weight
BLUCON	HAYWARD BLU CONCRETE SUCTION CLEANER	0610377216340	1	20.0 lbs
BLUVIN	HAYWARD BLU VINYL SUCTION CLEANER	0610377216401	1	20.0 lbs

## Bee Safe Petition

*Continued from page 5*

alone.” The BeeSafe products are effectively surface-mounted sumps with removable covers. The use of the BeeSafe products as a single main drain would not adequately address the risk under the Commission's interpretation.

CPSC staff recommended denying the petition to approve the BeeSafe Model 1 and Model 2 as method 6, “other systems” in the

Act, for the following reasons:

• the existing approved secondary-entrapment systems focus on limiting the suction available, not on denying bathers access to the suction hazard. The BeeSafe products are located at the suction hazard itself and in no way limit the available suction.

• many of the injuries associated with drain covers occur when the cover, or portion of the cover,

is missing. If the removable portions of the products are missing, both of the BeeSafe products effectively become blockable drains, exposing bathers to suction hazards in excess of the limits prescribed in the applicable standard, without the benefit of any secondary entrapment device.

Sincerely,

Kathleen Reilly

Pool Safety Campaign Leader

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# IPSSA members eligible for 35% rebate on online education at [www.ipssa.com](http://www.ipssa.com)

Through a partnership with the National Swimming Pool Foundation, IPSSA is pleased to offer online education through the IPSSA website. And, IPSSA members who complete classes through this online portal are eligible for 35% rebates!

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- Occupational safety courses
- Environmental management courses
- Depart of Transportation courses
- Healthcare courses

• Employment law courses  
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It's easy to enroll. Visit [www.ipssa.com](http://www.ipssa.com) and under the Resources tab click on Online Training Store to see all that is offered.

Once you have purchased your online training course, within one business day you will be emailed a link to the IPSSA training portal and an access code to activate your online class.

Prices for the classes range from \$19.95 to \$259, with most in the \$19.95 category. And, IPSSA members will be rebated 35% of their class fee upon completion.

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One of the benefits of membership in IPSSA is a \$50,000 life insurance policy. All you need to do is complete a Beneficiary Designation Form.

But, what happens if you haven't declared a beneficiary? You will lose control of who receives your benefits. The payment of funds will be delayed and, if the benefits are part of a probate, it could take a year or more for your loved ones to get those funds.

The good news is that, when your Beneficiary Designation Form is on file at the IPSSA financial office, the check for your life insurance benefit is issued as soon as the death certificate is received by the insurance company.

Call the financial office (888-391-6012) if you are not sure whether or not your Beneficiary Designation Form has been filed. If not, or if you want to change your beneficiary, you can download the form from the "Members Only" page of [www.ipssa.com](http://www.ipssa.com).

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## 17th Annual Inland Empire Pool Expo

The Inland Empire Pool Expo will be held on February 13th, 2013 at the University of Redlands, 1200 East Colton Ave., Redlands, CA 92374-3720. Classes start at 2pm and the show floor will be open from 5-8 pm.

There will be door and raffle prizes and a boxed dinner will be provided for the first 200 attendees.

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California Capitol Report

# Is California going off the deep end?

By John Norwood

John Norwood is president of the California Spa and Pool Education Council (SPEC), [www.calspec.org](http://www.calspec.org).

As we head into the 2013-2014 legislative session, there are a couple of big changes on the horizon. Most notable, a huge new tax hike with Proposition 30, generating billions in new revenue and

Democrats with a new super majority in both houses of the Legislature—giving them the ability to raise taxes and suspend rules, at will.

This past fall, California voters sent 38 brand new freshmen legislators to the California State Assembly and 10 new members to the California State Senate. With these new additions, Democrats

now have a super majority (two-thirds vote) in both houses for the first time since 1883. This means two important things. First, Democrats in both houses will be able to suspend the procedural rules of their respective houses with a two-thirds vote. This is particularly important because democrats can now bring back legislation that was essentially dead either because of amendments or because it missed an important legislative deadline. Rule waivers are generally used to circumvent the legislative process. Republicans would almost never allow these procedural votes, effectively killing legislation. Democrats will now be able to suspend the rules at will with the requisite number of votes and Republicans can do nothing to stop them.

This is also true of tax increases. Republicans used to be able to block Democrats from raising taxes. The Democrats historically have had little success finding the Republican votes to achieve the

two-thirds necessary to pass tax increases. Within days of Democrats taking control of Legislature we have already seen numerous bills introduced to make it easier to raise taxes.

There is some potential good news however. Governor Brown has governed as a true moderate. He has routinely cut superfluous spending and regulations. This past session alone he pushed through pension reform and workers' compensation reform. He has made massive cuts to health and social service programs. Governor Brown campaigned hard for Proposition 30 which passed with 55% of the vote. Proposition 30 raised the sales tax from 7.25% to 7.5% for four years and increased taxes on incomes at and over \$250,000 a year, for seven years. This is estimated to generate between \$6-\$9 billion dollars in new revenue annually. Governor Brown campaigned that this money would be used to prevent massive cuts to education. Because of this recent

tax increase, he has already stated there should be no more tax increases, instead urging the Legislature to be prudent with the taxpayer dollars they already have.

Additionally there may be the makings of a strong moderate democratic caucus in the state assembly led by Assemblymember Henry Perea of Fresno. Their strength or ability to form a successful coalition won't be known until the session begins and they are tested and forced to vote on tough issues. However, if they can coalesce, and align with Republicans on bills that are either bad for business, increase regulations, or raise taxes, they could be a potent and formidable ally for business interests.

Some hot topics to watch this session.

**The Split Roll Property Tax:**

With the super majority, Assemblymember Tom Ammiano (D-San Francisco) plans to offer legislation to change Proposition 13 by placing a "split-roll" on the ballot for voter approval. By creating a "split-roll" this would change the way business properties and residential properties are taxed. Currently, residential properties are taxed every time they change hands at current fair market value. Business properties change hands much more infrequently, therefore, critics argue, they should undergo routine reassessments of value. This would ostensibly cause business property taxes to go up every year. Of particular concern is the impact this will have on small business. Small business owners, who occupy commercial space, will take on a greater share of the costs to property owners. Senate Leader Darrell Steinberg has recently expressed reservations saying in a recent Los Angeles Times article, "I am not sure a "split-roll" should be a part of our near-term agenda."

**Parcel Tax:**

Sen. Mark Leno is preparing to offer SCA 3, a constitutional amendment that would lower the voting threshold to approve parcel taxes for local school districts from 66.7% percent to 55%.

**Infrastructure bonds:**

Assemblyman Bob Blumenfeld plans to offer legislation to lower the voting threshold on all infrastructure bonds from 66.7% to 55%. The business community in Sacramento has generally been supportive of this idea because of the need for updated infrastructure.

**Service Tax:**

Prior to Proposition 30 passing, the California Legislature attempted to expand the tax base by increasing the scope of service taxes. The pool and spa industry would have been hit particularly hard. However, despite Proposition 30 organizations representing teachers, educational institutions, unions, nurses and community service groups continue to want more tax revenue in order to restore billions of dollars in cuts to state services, healthcare and to education that have occurred in the last few budget cycles. As California keeps moving toward a service economy, these organizations are expected to keep the pressure up to bring in more revenue by extending the state sales tax to services.

Continued on page 14

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<input type="checkbox"/> <b>RETAIL/SERVICE</b> Gross Sales Less than \$150,000 \$150 \$150,001 - \$250,000 \$250 \$250,001 - \$500,000 \$500 \$500,001 - \$1,000,000 \$750	<input type="checkbox"/> <b>SUBCONTRACTOR</b> Gross Sales Less than \$1,000,000 \$250 \$1,000,001 - \$5,000,000 \$500 Over \$5,000,000 \$750	<input type="checkbox"/> <b>ALLIED INDUSTRY MEMBER</b> \$150
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**Thank You for Your Support!**

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# Ask Sue

By Sue Robach

Sue Robach is national training manager for Pentair Aquatic Systems. If you have questions for Sue, send them to [info@ipssa.com](mailto:info@ipssa.com).



It's New Year's resolution season, a perfect time to make a new or renewed commitment to professional development for yourself and your employees.

Keeping up to date with new technology, brushing up on the basics, giving a new employee a solid foundation for technical sales and service that takes customer satisfaction to a new level...I could go on and on about the benefits of industry education.

Staying up to date with the many products our industry produces, especially in the service trade, is so important. Many times as we gain new customers, we see products that someone else previously sold to the pool owner. It sure helps to gain your new customer's confidence to already have knowledge about the maintenance and repair aspects of the pool equipment on his or her pool. This leads to additional sales and profit now and in the future. Having a good foundation of knowledge about how a pump works, basic system hydraulics, how to use a volt meter and test a circuit or individual component or even what makes a filter work better, will all lead to building that customer's confidence and a good long term relationship.

As many of you know, Pentair and other leading manufacturers offer hands-on training workshops around the country. New this year, Pentair has added sections specific to three new products—GloBrite LED lights, SolarTouch automation controls, and the IntellipH water chemistry controller—and has provided more detailed heater troubleshooting techniques. Some of the most popular topics are variable frequency drive pumps, basic hydraulics and equipment sizing, best practices with automation controls, and chemical automation.

This month alone Pentair is offering single and multi-day workshops in California, New Jersey, Arizona, Washington,

Kansas and Illinois. We also have classes scheduled in early 2013 in Colorado, Connecticut, Idaho, Indiana, Kentucky, Massachusetts, Minnesota, Nevada, New York, Ohio, Oklahoma, Pennsylvania, Utah, Washington, Wisconsin, and three Canadian provinces. The complete schedule and registration information is online at [www.pentairtraining.com](http://www.pentairtraining.com). Our classes cover basic hydraulics, electrical training, and product specific training.

Manufacturers' training classes — ours and others' — are often listed in the trade newspapers and magazines. Schedules can be mailed to you or you may find them at the dis-

tributor counter or online. Many of us also teach classes at most of the industry shows.

When hands-on learning and networking with other students in person isn't practical, or if you just have a quick question or two, the Internet provides a wealth of information that you can access 24/7 without spending a dime on travel.

In particular, I want to take a moment to promote the online Pentair University, which will soon be available in Spanish and French. Sign up is easy, and tuition is free for

pool professionals. On the Pentair University website, you can read, watch, and download many of the same materials we use in our hands-on workshop. We've posted technical documents and webinars on service, installation, sizing, troubleshooting, specifications, and more for a wide range of pool equipment. There's also a student "Lounge," where you can chat with other online colleagues or post a question.

Whether you have been in the pool industry for decades or you just got started, make a point of keeping

current in our ever-changing industry. Take advantage of these and other educational opportunities. Your knowledge will help your business prosper and grow. Here's to a prosperous 2013.

Send Your Technical Questions

to:  
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*\*Note: Take care when applying 300 Tile Cleaner on vertical spillway areas. It is recommended to apply a generous amount of product to a sponge first and evenly apply to the scale on the spillway area working on small sections without dripping on clean tile. Allow to dwell (as stated on the directions), scrub and rinse. After the area is dry, a second application might be necessary. Adjust the water chemistry as needed.*

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For more information, contact Deck-o-Seal, a division of W. R. Meadows, Inc. by phone: (800) 542-POOL; fax: (847) 214-2268; e-mail: sales@deckoseal.com, or visit www.deckoseal.com.

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## 2012 Membership Application

### Step One: Contact & Directory Information

Contact Name: \_\_\_\_\_ Company Title: \_\_\_\_\_  
 Company Name: \_\_\_\_\_ Contact Telephone: \_\_\_\_\_ Fax: \_\_\_\_\_  
 Mailing Address: \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Email Address: \_\_\_\_\_  
 Directory Listing: \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
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### Step Two: Committee Involvement

The best way to take full advantage of your membership is to participate on a committee. With so many different opportunities to get involved, there's sure to be a committee for you. We welcome all members to any of our committees. It's a great way to meet other industry professionals and keep APEC strong. A committee chair will be in contact with you with more information on your chosen committees.

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### Step Three: Verify Membership Level and Dues Amount

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### Step Four: Total Renewal Cost & Submit Payment Information

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# Spark of Love holiday drive

By Ivan Vance

*Ivan Vance is the president of the San Fernando Valley chapter.*

It's time to ring down the curtain on another year. I really don't know where they go. It seems as though I was just chairing our first meeting in January. We just put our last chapter functions in the books with our holiday dinner meeting on December 5 and the toy drive turn in on December 8. Most everyone attending the dinner at Porter Valley Country Club, a convivial mix of members, chapter supporters, spouses and friends, seemed to be having a merry time of it and, as usual, we collected a goodly quantity of toys and checks for Sertoma. My compliments to our social event chairman, Glen Knecht for putting on an enjoyable and smooth running affair.

On Saturday, December 8th we convened at LAFD station 90 on Woodley Avenue, next to SCP, to transfer our accumulated donations, now bolstered by additional contributions, over to the fire fighters and the Sertoma organization. We were able to present them with over 300 toys and checks totaling in excess of \$4200.00, all of which was immediately transported directly to Sertoma toy central for sorting and eventual distribution to various charities in the Los Angeles area serving needy children. Sertoma, a benevolent association comprised of both retired and active fire fighters, has been carrying on this good work since 1976 and our chapter has been a participant in their effort for number of years now. As I've mentioned before, the cash donations we elicit are especially helpful since Sertoma always needs to buy additional toys to make up for insufficient donations for older children. Overall, we had a pleasant time at the station house, with Captain Chamberlain and his men offering us their generous hospitality.

guys, and they wheeled out a big fire fighting rig which a few lucky kids got to check out and even ride in. Many thanks to the folks at SCP for their kind assistance in

holding the event. They have expressed to me their desire to do so again next year, so, hopefully we will be able to put something even better together in 2013.



We grilled burgers and hot dogs, shared lunch with the fire

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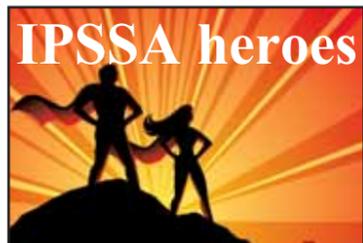
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(See 'Matching funds available from IPSSA Inc.', Page 16)

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# The Model Aquatic Health Code (MAHC) The Process



**By Steve Donohoe**

Steve Donohoe is a member of the IPSSA Orange County Pool Professionals chapter and an authorized NSPF instructor.

The Model Aquatic Health Code (MAHC) is hosted by the Centers of Disease Control and Prevention (CDC). The enormity of work and effort that has gone into creating this national uniform aquatic health code is staggering.

The CDC is the only U.S. federal agency that has commission over public aquatic facilities and since their mission is "to promote health and quality of life by preventing and controlling disease, injury and disability," they are the best-qualified organization to create such a document. The CDC is not a regulatory agency and will not require adoption or impose it. However, once the MAHC is completed, it will be the federal "Standard of Care" for public aquatic facilities. It is intended to be a model aquatic code standard that state and local public health agencies can adopt in part or in whole as code regulations for their jurisdictions.

While the CDC is the driving force behind the creation of the MAHC, they are not doing it alone. The creation process is patterned after the U.S. Food and Drug

Administration's "Food Code," which has been published every two or four years since its inaugural edition in 1993, and has revolutionized the regulation of the restaurant and grocery industries. (As of 2005, the Association of Food and Drug Officials reported that 48 states had adopted food codes based on some iteration of the FDA's national model.)

The MAHC is scientifically-based on data gathered by the CDC from experts in the aquatic industry. These experts have volunteered to be members and leaders of the MAHC and to chair the twelve topical committees doing the research and developing the code. "As with the Food Code, this is not just creating code language - it's not just a matter of what does the code say, but why," says Doug Sacket, New York State Department of Health and Director of the MAHC's steering committee. "We're adamant that the code has to be supported by scientific data, to the extent possible. In pool codes across the country, even in some of our industry standards, there are criteria we've been using for decades. But when you start drilling down the information and asking where this information came from, there's often no defense

for it. It's just, 'This is how we've always done business.'"

Once each committee completes its research, develops and writes its specific topical section, or "module" of the MAHC, the module and its corresponding "annex" (the scientific rationale behind the module) is released to the public for a 60 day comment period. After 60 days, the module is edited, the public comments are addressed and then the module is republished. After all twelve of the modules go through this process, the entire MAHC will then be released for one more 60 day comment period. We expect the first edition of the MAHC to be published by the summer of 2013.

You can read about the MAHC on the CDC website here: [www.cdc.gov/healthywater/swimming/pools/mahc](http://www.cdc.gov/healthywater/swimming/pools/mahc) or scan the QR code with your smart phone.

As Bob would say, "See ya!" Until then, remember: "Education is a Journey, not a Destination." Let's take the journey together.



*"Model Health Code Making Waves in the Aquatics Industry", Nicholas Brown, February 2011, AthleticBusiness.com.*



Left to right: Ryan Winther (Long Drive Champ), Mark Becker (Golftoberfest founder), Shawn Panico (Golftoberfest founder).

## Golftoberfest

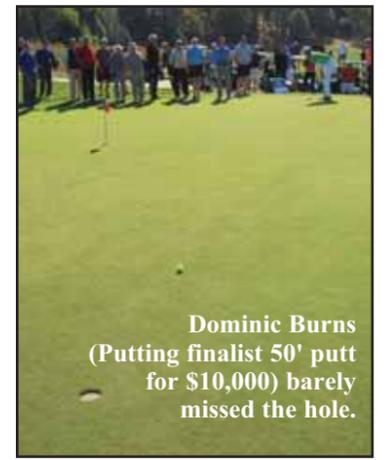
*Continued from page 1*

for five years is approximately \$60,000! These donations help many veterans during the holiday season.

We would like to thank everyone who supported & donated to Golftoberfest, and are humbled by the support & generosity that we have received:

Chem Quip, HASA, Zodiac Pool Systems, Pentair Water, Greg's Pool Works, SCP, General Pool Supply, Aztec Solar, Hayward, Mike the Poolman, Natural Chemistry, Prestige Valley Gunit, Dennett Pools, El Dorado IPSSA, East Bay IPSSA, Classic Pool Finishing, Solano IPSSA, American Leak Detection, Pool Time Tile & Plaster, Leisure Supply, Valley Leak Detection, Sunfare Pool Service, All Seasons Pools & Spas, Sales Link, Arch Chemical, Backyard Commercial Sales, W.R. Meadows, Region 1 Director, Dave Durkin and Capital Valley IPSSA.

Louise Stanley, Director of Northern California Soldiers' Angels said, "Tournament donations have contributed to essential, long-term support of our military veterans throughout Northern California throughout the year, but especially during the holiday season. More than 50 veterans and their families have received a new lease on life in great measure to the support they receive from the pool association members."



Dominic Burns (Putting finalist 50' putt for \$10,000) barely missed the hole.

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### THURSDAY, FEB. 21, 2013 / EXHIBIT HOURS 6-9 P.M. / OPEN TO THE TRADE ONLY / REGISTRATION REQUIRED / New Class

Time	CLASSROOM 101A	CLASSROOM 101B	CLASSROOM 102A	CLASSROOM 102C	CLASSROOM 103A	CLASSROOM 103C	CLASSROOM 104A	CLASSROOM 104B	CLASSROOM 104C
1 PM TO 2:45 PM	Millionaire Pool Man: Building wealth for Retirement, Charles Baird, Nat'l. Pool Route Sales	Easy Water Chemistry Gloria Wilson HASA	Troubleshooting Tile and Coping Brad Rose, Precision Tile and Coping	Raypak Heater Repair <i>Clases en Español</i> Juan Arias	Vanishing Edges and other Raised Walls: Waterproofing and More, Ron Lacher	Wave of the Future, Ozone and Advanced Oxidation, Cherie Brook, Prozone Water Products	T/S Max-e-Therm Master Temp Heaters, Steve Middaugh, Pentair	Virginia Graeme Baker Act / Make Your Pools Safe: Steve Barnes, Pentair, APSP Technical Committee	Salt Chlorine What You Need to Know, Bob Seward and Dan Smith, Hayward
3 P.M. TO 3:45 P.M.	Proactive New Pool Start-Up Technology Marvin Rezac, Easy Care	PVC Plumbing Dos and Don'ts Jim Branch, JPS Weld-On	How to Install Water Features That Work Ron Hetzner, Oreq	Algaecide/Sequesterants Overview <i>Clases en Español</i> E. Serrano, Easy Care	Proper Care of Fiberglass surfaces Richard Dietz, Aqua Creations	How to Repair and Replace Pool Lights, Robert Foutz Jr., Purity Pool	Make Title 20/24 Work for You and be legal, Jeff Farlow & Steve Barnes, Pentair	Commercial Chemical Automation - CAT Controls and Commercial Salt, Jason Ainsworth and Dan Smith	
4 P.M. TO 5:45 P.M.	Everything About Gunite and Shotcrete, Ron Lacher, Pool Engineering Inc.	Good Mastic Installation Jim Dill Deck-O-Seal	Discoloration: Rescue & Prevention, Chris Romero, United Chemical	Jandy Controllers T/S and Repair <i>Clases en Español</i> Arturo Torres	Basic Electricity Dave Durkin	How a Pool Works Robert Foutz Jr Purity Pool	EasyTouch Controllers, Mike Childress, Pentair	Sanitizing and Chloramine Removal in Swimming Pools with UV Technology, Jeff Boynton, Kent Fisher Delta Ultraviolet Corp.	Hayward Controls - Options, Installation, Programming and Remote, Dan Smith and Bob Seward, Hayward

### FRIDAY, FEB. 22, 2013 / EXHIBIT HOURS 2-6 P.M. / OPEN TO THE TRADE ONLY / REGISTRATION REQUIRED / New Class

Time	CLASSROOM 101A	CLASSROOM 101B	CLASSROOM 102A	CLASSROOM 102C	CLASSROOM 103A	CLASSROOM 103C	CLASSROOM 104A	CLASSROOM 104B	CLASSROOM 104C
8 A.M. TO 9:45 A.M.	Acid Wash Proper Techniques Fowler/McArthur	Pool Surface Forensics 101 Greg Garrett	Upcoming Legislation, Town hall Forum on Issues You Care About, John Norwood, SPEC	Hydraulics <i>Clases en Español</i> Ricardo Gonzalez Pentair	Hazardous Material Transport and Your Route Truck Ron Hetzner, Oreq	Advance Water Chemistry OnBalance	Heat Pumps Warm Air = Warm Water Raypak	Web Controlled Devices and Suction Mechanical Cleaners, Mike Lucas, Jandy/Zodiac	Hydraulic Basics - Important Basic Hydraulic Facts for Pools and Spas, Bob Seward and Jay Acocks
10 A.M. TO 10:45 A.M.	Proper Service of Pool/Spa Filters Fowler/McArthur	Recommended Pool Start-up Procedures National Plasterer's Council	The ADA and your Commercial Pools Steve Dunn, Commercial Pool Systems	Phosphates: Facts and Myths <i>Clases En Español</i> E. Serrano, Easy Care	Troubleshooting Time Clocks, Allen Ustianowski, Intermatic	Certified Aquatic Energy Auditor - Introductory Seminar, Michael Orr	Utility Problems that Drive Sales (beyond the rebates), Jeff Farlow, Pentair	How to Find a Pool Leak, Bill Campbell, Orange Co. Leak Services	Variable Speed Pumps-EcoStar Installation Basics & Programming, Jay Acocks and Dan Smith, Hayward
11 A.M. TO 12:45 P.M.	Chemistry 201, Intermediate Chemistry, Wayne Ivusich, Taylor Technologies	Let's talk Business 'n Tax Planning Gary Garbowitz RGB Accounting	RWIs: Waterborn Illness in Swimming Pools, Steve Dunn, Commercial Pool Systems	Cleaners - <i>Clases en Español</i> Troubleshooting and Installation Tips	Intermatic Multwave Wireless Controller, How to Install, Allen Ustianowski, Intermatic	Starting Your Business on the Right Foot - the Value of Your Accounting System, Cindy Hovig	Service Tech's Hydraulics For Single, Two and Multi-Speed Pumps, Sue Robach Pentair	Chlorination Generation Systems, Mike Lucas, Jandy/Zodiac	Hayward Heaters - Installation and Troubleshooting, Dan Smith and Jay Acocks
1 P.M. TO 2:45 P.M.	How a Motor Works Basic Motor Repair Dennis Bush, Regal Beloit	Myths of Metal Staining, Dennis Chapman, Dr. Joseph Laurino, CuLator Periodic Products	Differential Hold Down Forces - Entrapment Prevention, Ron Schroeder, New Water Solutions, NSI/Tork	Variable Speed Pump - Installation and Programming	Salt Systems and How They Function, Jared Schwab	Identify and Remove Plaster Stains, Barry Driks, Jacks Magic	Low NOx Heaters- Components and Troubleshooting, Mike Lucas, Jandy/Zodiac	Hayward Navigator Pro and Pool Vac XL-Tear Down, Reassembly and Correct Installation, Kelly Kohler and Bob Seward	

### SATURDAY, FEB. 23, 2013 / EXHIBIT HOURS 1-6 P.M. / OPEN TO THE TRADE ONLY / REGISTRATION REQUIRED / New Class

Time	CLASSROOM 101A	CLASSROOM 101B	CLASSROOM 102A	CLASSROOM 102C	CLASSROOM 103A	CLASSROOM 103C	CLASSROOM 104A	CLASSROOM 104B	CLASSROOM 104C
8 A.M. TO 9:45 A.M.	Building and Operating a Profitable Service Business, David Dickman, Service Industry News	Chemistry 101 Basic Water Chemistry, Terry Arko, SeaKlear	Upcoming Legislation Anti-Sales Tax, John Norwood, SPEC	Heaters - Troubleshooting and Installation Tips	Algae Free Pools Enzymes and Phosphatate Removal, Chris Marcano	Ozone + Germicidal UV Advanced Oxidation Process (AOP), Del Ozone, Beth Hamil	The Shocking Truth of Electricity and How to	Var Speed Pumps Operation and Connection to Controls, Mike Lucas, Jandy/Zodiac	Advanced Electrical & NEC Code Changes, E.P Hamilton III, PhD PE Hamilton & Assoc.
10 A.M. TO 11:45 A.M.	Hot Water Chemistry, Wayne Ivusich, Taylor Technologies	Understanding Variable Speed Pumps Ben Honadel	Litigation 101 Avoiding Claims and Court Ray Arouesty	Jandy Controllers T/S and Repair <i>Clases en Español</i> Arturo Torres	Poolvergneruegen Troubleshoot and Maintenance, Mark Pieri	Take Some Time Back from your Accounting System, Cindy Hovig	Troubleshoot It, Mike Childress, Pentair	Jandy Control Systems Operation & Troubleshooting, Mike Lucas	Business Management, Doug Latta, Aqua Clear Pools
NOON TO 1:45 P.M.	The Real Scoop on Spot Etching and Calcium Nodules On Balance	Variable Speed Pumps: Advanced Programming and Sales Strategies, Ben Honadel, Pools by Ben	Proper Pool Maintenance with Ionization, Tito Ignacio, Wailani Pure	Max-e-Therm, Max-e-Temp Heater repair En ESPAÑOL, Ricardo Gonzalez, Pentair	Digital Dos and Don'ts of Electronic Raypak Heaters	Poly Socket Fusion (Gas Lines) John Freeman Barry Peterson, PEP	Performing Energy Efficiency Reviews, Jeff Farlow, Pentair	Certified Stain Specialist, Barry Driks, Jack's Magic	Understanding and Troubleshooting Solar Pool Heating Systems. Variable Speed Pumps & Pool Heaters Roy Heine and Phil DelNegro

Seminars & Speakers subject to change or cancellation without notice / CHECK [www.westernshow.com](http://www.westernshow.com) FOR UPDATES OR CHANGES / Speakers' views are their own and not necessarily those of the Western Pool & Spa Show, Inc.

# Know your electrical code

**By Dave Durkin**

*Dave Durkin is the director of Region 1*

The definition of feeders are the wires installed in a conduit. Feeds can be installed in the following manners:

1. Rigid metal conduit
2. Intermediate metal conduit
3. Liquidtight flexible non-metallic conduit, but no more than six (6) feet

4. PVC conduit that is protected from physical damage

5. Electrical non-metallic tubing where installed in a building

6. Rigid poly vinyl chloride conduit

7. Type MC cable installed in a building that is not subject to a

corrosive environment

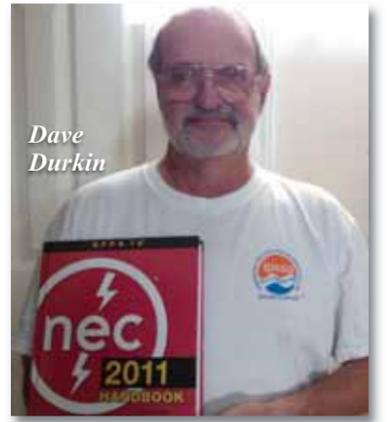
The following installation of feeders should not be installed in this way.

1. Aluminum conduit shall not be installed in a pool area subject to corrosion
2. Rigid and rigid poly vinyl conduit shall be buried with at least six (6") inches in the ground

3. All other conduits shall be buried at least 18" underground

4. EMT of Electrical metallic tubing shall not be buried and can only be used above ground.

If you have any questions about this list, please don't hesitate to contact me, Dave Durkin, at (925) 757-1311 or [d.melectric-poolsrepair@yahoo.com](mailto:d.melectric-poolsrepair@yahoo.com).



Dave Durkin

Happy New Year and stay electrically safe in 2013!!

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16th President

## California Capitol Report

Continued from page 8

### Focus on the Underground Economy:

A joint operation of multiple government agencies was created by the Brown administration to target the underground economy that is running rampant in California. Creation of this task force was done with the urging and support of a board base of organizations representing the construction industry, including SPEC. The underground economy is also referred to as tax evasion, tax fraud, cash pay, tax gap, payments under-the-table, and off-the-books. It is costing the state billions of dollars in lost tax revenue. A February 2005 report, California's Tax Gap, prepared by California's Legislative Analyst's Office, estimates California's income tax shortfall to be \$6.5 billion caused by unreported income. Reports on the underground economy indicate it imposes significant burdens on: (1) the State of California, (2) businesses that comply with the law, and (3) workers who lose benefits and other protections provided by state law when the businesses they work for operate in the underground economy. The pool and spa industry in particular will continue to take a hit as many contractors and businesses accept cash payments, forcing the law abiding businesses to pick up the tab.

We expect that efforts of the task force will continue in 2013 and that there will be additional legislative efforts to tighten up on abuses emanating from non-compliant contractors. There are some measureable successes from these efforts. As an example, in June of this year, state agencies issued over 100 enforcement actions across the state for failure to carry workers' compensation insurance, under-reporting the number of workers to obtain reduced premiums and to pay less in payroll taxes. The eight or so state agencies that each have a roll in enforcing the state labor and tax laws are actively working together to coordinate their efforts at attacking non-compliant contractors and the underground economy.

### Independent Contractors:

With the volatility of today's labor market and economy, people need flexibility and options. Independent contractors are an important source of strength for the California economy. As we move forward through the legislative session we will need to keep a careful eye on labor unions pushing overly burdensome regulations

Continued on page 18

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# New searchable database, WANID.org, tracks aquatic-related incidents worldwide

*National Swimming Pool Foundation® provides access free, because information sharing is paramount to producing positive change for the future.*

The Worldwide Aquatic News Incident Database, www.WANID.org, a searchable database, has been developed by non-profit National Swimming Pool Foundation®. These events may result in injury, illness, and death. WANID also tracks aquatic-related lawsuits and pool closures. The Foundation

provides access to the database at no charge for educational purposes. The detailed information system began first data collection in May 2006 by drawing from online news reports.

Although the database is not completely comprehensive, it contains about 2,500 records thus far. "We have been tracking and categorizing news stories for years to help us understand the issues in our field," says Thomas M. Lachocki, Ph.D., CEO of National Swimming Pool Foundation. "Understanding issues empowers

us all to undertake solutions." WANID searchable fields include pool type (residential or commercial), incident type (17 different), country, state, date range, age, gender and ethnicity when reported. A hyperlink to the original news report from which the data was collected and a photo associated with the story are also available. Users can pinpoint specific incidences depending on their interests.

WANID tracks the following types of incidents: Air Quality, Bodily Fluid, Chemical Exposure, Chlorine Spill/Leak, Drowning, Injury/Accident, Lawsuit, Pool Closure, RWI – Crypto, RWI – E.Coli, RWI – Giardia, RWI – Legionnaires, RWI – MRSA, RWI – Norovirus, RWI – Pseudomonas A., Shallow Water Blackout, and Suction Entrapment.

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## Matching funds available from IPSSA Inc.

IPSSA Inc. has a matching grant fund of \$22,000 to assist individual regions and chapters for community involvement, safety programs, and promoting IPSSA to the public. The spirit of the matching grant is to foster IPSSA promotions by facilitating new ideas from individual members, chapters and regions.

The matching grant funds shall be allocated evenly by region in each given year. In the event that a region does not request funds in a given year, that region's representative may elect to reallocate their portion to the matching grant fund for redistribution. Any redistribution of funds must be approved by the BORD.

The BORD will match, dollar for dollar, up to the budget amount once a matching grant is approved by the regional Board.

Each region shall determine how to use its allotment of funds

without BORD approval once it has been approved by the regional Board.

Individual members, chapters and regions of IPSSA in good standing qualify for matching grants.

- Matching grant requests must be submitted in writing to the regional director.

- The regional director shall qualify the request to meet the spirit of the matching grant program.

- The region must approve the grant by either a regional Board meeting, regional Board teleconference, or e-mail ballot, and the results will be posted in the regional minutes.

- The regional director shall then request the funds from the IPSSA BORD president or chief financial officer without BORD approval, as long as the requested amount does not exceed the region's budgeted amount.

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# Ninth World Aquatic Health™ Conference delivers on WaterWisdom

Event highlighted research, including health benefits of water exercise, making pools & spas safer, and impact of learn-to-swim initiatives.

Mark your 2013 calendar: October 16-18, Indianapolis, Indiana

The ninth World Aquatic Health™ Conference (WAHC™) and Aquatic Physical Therapy Summit was held for the first time in Norfolk, Virginia, and organizers report a strong attendance, with 412 attendees, holding close to last year's record-setting event in Seattle. The World Aquatic Health Conference is recognized as the leading global aquatic research forum. "This year's conference was a great success, attracting many return attendees as well as new people and organizations," said Michelle Kavanaugh, Conference Manager for the National Swimming Pool Foundation®. "The feedback has been very positive, with nearly 80 percent indicating they will join us in Indianapolis in 2013."

Global water recreation and therapy experts gathered for the annual event, which highlighted research, including health benefits of water exercise, making pools and spas safer, and impact of learn-to-swim initiatives. Learning from the best and brightest, attendees listened to two keynotes and selected from 41 high-level sessions in five diverse topic areas, attended lunch roundtables, and gathered around the scientific poster session. "Our live-streaming of all five seminars on the Model Aquatic Health Code was a huge success, so we have plans to expand live-streaming offerings for 2013 in Indianapolis," explained Kavanaugh. "Also, the 41 seminars are now available on-

demand <http://nspf.netro.ca/Products.aspx>."

The event delivered the WaterWisdom promised, through practical science, diversity of thinking and a breadth of knowledge, all with an emphasis on useful application. Surveyed respondents say they attend year after year because of the opportunity to increase their knowledge, the wide array of seminar choices and plenty of time for networking.

Industry, government, academic and health leaders traveled from 41 states and 8 countries. International attendees came from Australia, Belgium, Canada, Italy, Mexico, Spain and the Ukraine. Of the 412 registrants, 46% noted they were high level decision makers including CEO, president, owner, vice president, or director, which is up from previous years.

Industry segments represented were from aquatic facilities, service providers, consultants, parks & recreation, water parks, manufacturers, academia, associations, builders, community organizations, distributors, hotels, government, health/medical, retail, and media.

In its third year of collaborating with the World Aquatic Health Conference, the Aquatic Physical Therapy Section of APTA offers its membership a unique learning opportunity and a means of professional networking. "Nothing can mimic exercising in the water and this conference gives our members

an excellent opportunity to hear and share the latest research. Also, this conference allows great networking with a diverse group of people that work in the aquatic environment," says Diane Platz, PT, Vice President of the Aquatic Physical Therapy Section of APTA. "This sharing of ideas and professional knowledge will strengthen the future for all of us in Aquatics," she concludes.

The two keynotes reflected the conference theme and illustrated how gaining WaterWisdom is not just about learning, but applying the

knowledge to effect positive change. "What we do can literally change people's lives," emphasized Bryon Embry, world-renowned motivational speaker, who showed attendees the passion for more swimmers will result in a healthier society, and a more promising future for our industry. Embry and Thomas M. Lachocki, Ph.D, CEO of National Swimming Pool Foundation, key-noted both the conference and the inaugural Step Into Swim™ Congress one day prior to the conference.

### Conference Highlights

- Julie Gilchrist, MD, Centers for Disease Control (CDC), shared current drowning and chronic illness statistics and discussed how critical swimming lessons are to reduce drowning and diseases.
- Michael Beach, PhD, and Robert Blake, MPH, REHS, (CDC), discussed the Model Aquatic Health Code. A complete day, the Science

Behind the MAHC, was live-streamed to people who wanted to be up on the latest information.

• Kelly Reynolds, PhD, University of Arizona, and NSPF 2012 grant recipient discussed her funded project "Standardization of Health Impact Studies Due to Aquatic Environmental Exposures" and outcomes.

• Michele Hlavsa, RN, MPH (CDC) gave an update on Cryptosporidium prevention efforts.

• Beth Ennis, PT, EdD, PCS, ATP, All About Families, PLLC, presented on aquatic therapy for children with autism spectrum disorders, and how hydrostatic pressure improves cognitive and behavioral functions.

• Adelaida Maria Castro-Sanchez, PhD, Universidad de Almeria, Spain, shared aquatic solutions for managing pain in persons with multiple sclerosis.

Continued on page 19

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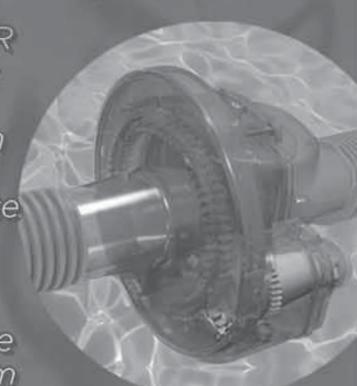
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Zodiac Pool Systems, Inc. has recently introduced its newest controller, the AquaLink® Z4, which controls up to four circuits and three valve actuators. This affordable, convenient, and easy-to-use control system seamlessly integrates with iAquaLink™, which allows pool owners to control and automate their pool using any smartphone, tablet or web-connected device.

It's a great option for customers seeking a control system to automate their pool without numerous accessories and add-ons. Pool pros will appreciate that it integrates with iAquaLink, allowing them to monitor and control their customers' pool or pool/spa combo anytime, anywhere using any web browser or custom apps for leading smartphones or tablets. iAquaLink apps are available for both Apple® and Android® smartphones and tablets.

The Z4 controller delivers complete pool/spa control in one simple

device. It is perfect for new builds or remodels and provides energy efficient 4-function pool/spa automation:

- Easy installation and intuitive set-up
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## California Capitol Report

*Continued from page 14*

such as new taxation or record keeping requirements; that reduce the incentives employers may have to hire independent contractors.

### Minimum Wage Increase:

Assembly member Luis Alejo of Salinas is back this year with a new minimum wage bill AB 10-- that would raise the minimum wage to \$8.25 in 2014, with two 50-cent boosts in subsequent years, and then automatic adjustment to inflation beginning in 2017.

Labor unions in particular are a strong advocate for the bill, particularly for the indexing — contending that low-income workers lose purchasing power due to inflation. Opponents, such as restaurants and other employers with large numbers of minimum wage workers — say that raising the minimum wage would increase their costs and force them to reduce payrolls.

The 2013-2014 legislative session should shape up to be one of the most interesting we have seen on record. Not in our lifetime has there been a super majority in both houses of the Legislature. No one knows how this legislature will operate with its new governing authority. But like the old saying goes, "with greater power, comes greater responsibility."

The California Legislature will return to Sacramento on January 7 to begin the 2013-14 legislative session in earnest. Officially the bill introduction period is open but traditionally most bills are not introduced until close to the deadline for bill introductions in late February. SPEC will be closely monitoring bill introductions over the next couple months and is prepared to intervene on any legislation that would affect SPEC members.

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# World Aquatic Health™ Conference

Continued from page 17

- Hirofumi Tanaka, PhD, University of Austin, shared his latest knowledge about swimming and cardiovascular health. Dr. Tanaka is a recipient of a 2013 grant from NSPF.

- Paul Chantler, PhD, West Virginia University, presented his review of land vs. water-based exercise on arterial health in diseased populations. Dr. Chantler is also a 2013 grant recipient.

- Lifeguarding was discussed in three different presentations: Two were presented by Robert Ogoreuc, ME, Slippery Rock State University on how to properly scan, target, assess, rescue and remove; and communications with fire, EMS, and police before an incident; Roy Fielding, MA, NSPF-I, WSIT, LGIT, University of NC - Charlotte, reviewed 4 years of data of the lifeguard rescue reporting system of the US & Canada.

- Connie Sue Centrella, MA,

Team Horner, focused on how to make a facility more sustainable.

- Dr. James Amburgey, University of North Carolina-Charlotte, discussed his evaluation of circulation systems and the influence on water quality.

- Dr. Chip Blatchley III, PhD, Purdue University, reviewed UV-based treatment on water and air chemistry in indoor pools.

- Presenters from American Red Cross, USA Swimming, US Swim School Association, the JCC Association, 21st Swimming Lessons and the ZAC Foundation discussed saving lives through swimming lessons.

### Extras

- Step Into Swim™ Inaugural Congress featured four organizations who presented their plan to potential donors to explain how they will help meet the demand to create 1 million more swimmers in the next 10 years.

- Three leading organizations, USA Swimming, Aquatic Exercise

Association, and Genesis 3 Design Group, partnered with the World Aquatic Health Conference to host pre- and post conference events.

- Six leadership meetings were held: the fifth annual National Swimming Pool Environmental Health Leader Meeting, APTA Aquatic Summit Annual Board meeting, sixth annual International NSPF Instructor Meeting, National Swimming Pool Foundation Instructor Course, CPO® Certification Course, and the CDC Model Aquatic Health Code (MAHC) Steering Committee.

Event organizers extended tabletop displays at no charge to non-profit organizations and conference sponsors. Thirteen organizations were available to meet attendees and the media at their tabletops during conference breaks: American Physical Therapy Association, American Red Cross, Centers for Disease Control, Consumer Product Safety Commission, 21st Century Swimming Lessons (Conquer Fear), Hayward Commercial, Hydro Institute, Inc., International Swimming Hall of Fame, Joshua Collingsworth

Memorial Foundation, NSF International, Swim for Life Foundation, USA Swimming, and The Zac Foundation.

### Sponsors

The World Aquatic Health Conference and APTA appreciate the twelve sponsoring organizations who invested to show their support and helped elevate the science in our field: Aquasalt, LLC, Aquatics International, Colorado Time Systems, Councilman-Hunsaker, Delta UV, DuPont, Engineered

Continued on page 22

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# 2012 International Pool | Spa | Patio Expo experiences

Attendees and exhibitors filled the Morial Convention Center with energy and excitement during the recent 2012 Int'l Pool | Spa | Patio Expo. Taking place in New Orleans for the first time since 2003, the show was held Novem-

ber 6-8, with the educational conference taking place November 2-8.

Total attendance was 10,202, a 5% increase over the 2011 show, marking the third year in a row the show has seen an increase in total

attendance. Attendees represented all segments of the industry, including pool/spa builders, retailers, service companies, designers and landscape architects

"We are very pleased with the number of attendees and with the enthusiasm they brought to the buying and selling activity on the show floor," said Lindsay Roberts, Director of the Expo. "New Orleans was a real draw for attendees as exhibitors enjoyed steady traffic as they introduced hundreds of new and innovative products to high-caliber decision-makers.

In attendance were representatives from the industry's leading retailers and pool builders, including Leslie's Poolmart, Blue Haven Pools & Spas, The Pool Doctor, Dolphin Pools, Claffey Pools, J Tortella Swimming Pools, Perry Pools, Gohlke Custom Pools, Platinum Pools, Backyards of

America, Olympic Hot Tub Co, Mermaid Pools & Spas and Pinch-A-Penny.

Attendees represented all 50 states, with the largest number from Texas, Louisiana, California, Florida, Illinois, Georgia, Alabama, New York, Mississippi and North Carolina. The largest number of international attendees came from Canada, Mexico, United Kingdom, Australia, Israel, Venezuela, Belgium, Columbia, and Ecuador.

### Exhibit Hall

The show floor was comprised of 1,555 booths, 548 exhibiting companies, and 155,500 net square feet of exhibit space, a 26% increase over 2011, with an additional 10,000 net square feet of educational and training space.

Of the 548 exhibiting companies, 107 were first-time exhibitors including Aspen Spas, Tallman

Pools, Easy Dome Pool Covers, Green Mountain Grills, Panama Jack Outdoor and Lyon Financial.

"This was our first time to exhibit and felt the overall quality of attendee was far greater than expected," said Daniel Epple, Director of Marketing and Business Development at Only Alpha Pool Products. "Given the explosion of growth Only Alpha Pool Products is experiencing, we will certainly be exhibiting at the 2013 show with a larger booth space."

Returning to the show were several key manufacturers who have not exhibited in several years, including Hayward Pool Products, Zodiac Pool Systems, Cal Spas, Imperial Pools, Marquis Spas, Saratoga Spa & Bath and Maax Spas.

"Hayward was proud to exhibit at the show again," said Bruce Porter, Director of Marketing Communications at Hayward Pool Products. "We had great traffic at our booth and attendees were excited about our new product lines."

Exhibitors were pleased with the number of leads and inquiries that were generated. "We were overwhelmed with the amount of international attendees who were interested not only in our services, but the possibility of purchasing a franchise," said Adam Gray, Marketing Director at American Leak Detection. "No other show offers such an eclectic mix of people in one space."

"It is very exciting to see the Industry coming back so strong," said Ross Johnson, VP Sales & Marketing at the Outdoor Great Room Company. "The quality of the leads we've obtained were strong and buying; we have written several orders already since getting back."

"The attendees came to the show to do business and we had a great time meeting them and writing orders," said Mark Schreiber, President / Inventor at Aqua Comb/Mi-Way. "We picked up both European and South American customers which was one of our goals for this year's show."

"The show was a great success once again," said Craig White, President at Water Park Toys. "Exhibiting at this show allows us to showcase new product to a broader market with immediate feedback and results. I won't be missing next year's event."

"The New Orleans show turned out to be the best show ever for The Circulator," said Wes Welden, CEO at ASSET — The "One & Only" Circulator. "The traffic to our booth was overwhelming as we had customers waiting in line to place an order."

"Feedback we received from exhibitors and attendees about the quality of educational offerings and leads proves this show contributes to the industry's continued success," said Bill Weber, President and CEO of APSP, the show's

*Continued on page 21*

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## 2012 International Pool | Spa | Patio Expo experiences

Continued from page 20

official sponsor, who had a 2,500 square foot booth at the show.

### Educational Conference

In addition to the show floor's buying and selling activity, the show's conference program offered 74 business, technical and "hot topic" seminars designed to improve skills through best practices and the latest technologies.

"The conference program was exactly what I needed. Each seminar provided more than enough information," said Corey Biron, Owner at Moxie Pools. "It was a great opportunity to learn about new products and meet key manufacturing contacts that I have already tapped to help us resolve customer issues."

"We attend primarily for the seminars that help us grow our business," said Brian McGarry, President at Sapphire Signature Pools. "We know that our products and service are better than the competition who does not attend."

"I attended the show for the first time and found all the valuable information learned in the seminars extremely useful," said Igor SIlsteroli, Interior Designer at The Gib-San Group. "The seminars have been a great help to my career."

In addition to the show's core educational program, advanced, pre-show educational programs were offered for pool/spa builders/designers and service company professionals through the APSP Builders Institute, APSP Technical Service Institute, APSP Hot Tub Technician Certification, Genesis

3 Design Schools, Genesis 3 Elements of Construction, and Genesis 3 Introduction to Perspective Drawing.

### Show Floor Highlights and Special Events

The APSP Live Zone encompassed the APSP booth, the hands-on live workshops and classroom presentations where attendees learned additional product information about some of the products being demonstrated in the workshops.

Once again the Product Showcase, sponsored by AQUASALT, offered the hottest industry trends and the latest new, cool and green products. From a selection of more than 96 products, a panel of industry experts awarded Natural Current the "Best New Product" for its Savior™ 5000, a floating, submersible, portable, solar pump and filtration system by Aqua Sun Ozone. The panelists also awarded SNTech with "Best Green Product" for its Infinity 2.8 VS pool pump motor.

The opening night Welcome Party on Tuesday, November 6, was held at Mardi Gras World, located next door to the Morial

Convention Center. Sponsored by Strong Pools and Spas, attendees and exhibitors networked while browsing the floats, sculptures and props used in the Mardi Gras parade, before moving to the Plantation-styled Mansion, filled with delicious Cajun hors d'oeuvres, wine, beer and soda.

Saber Grills hosted the Saber Grills BBQ & Jazz Fest on Wednesday, November 7, and drew a standing room only crowd of attendees and exhibitors who enjoyed tasty grilled treats cooked on the new infrared Saber grills.

The Genesis 3 Lifestyle Program hosted a variety of networking and educational opportunities on the show floor, including seven design, business and engineering classes, as well as a winetasting with Gary Eberle of Eberle Winery.

### Save the Date for 2013

The 2013 Int'l Pool | Spa | Patio Expo will be held November 12-14, 2013, at the Mandalay Bay Convention Center in Las Vegas, Nevada. The educational conference will be held November 9-14.

Housing and online registration will open in late June.

For information about the Int'l Pool | Spa | Patio Expo, visit [www.PoolSpaPatio.com](http://www.PoolSpaPatio.com) or call 972.536.6350 or 888.869.8522. Additional information about the show can be found on Facebook at [www.facebook.com/PoolSpaPatio](http://www.facebook.com/PoolSpaPatio)

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# How much free chlorine do you really need?

Continued from page 1

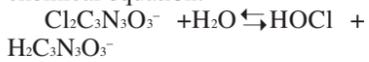
algae depending on which source is right. In any case, HOCl greater than 0.050 ppm will kill algae for sure according to all sources. This is a small amount.

### Chlorine Binds to CYA and Slows Down Kill Times

When chlorine and CYA (cyanuric acid) are in the water, the chlorine binds to CYA and that is determined by chemical equilibrium. The slowdown in kill times is significant. HOCl, OCl<sup>-</sup> and all forms of chlorine bound to CYA together are free chlorine (FC) and total chlorine (TC). It is up to you to know how much of the chlorine that is in the water is in the killing form (HOCl). This requires knowing the pH and CYA level in addition to FC.

Chlorine combines with CYA to form new chemicals – chlorinated isocyanurates. These new chemicals are not significant disinfectants or oxidizers. In other words, they don't kill or oxidize anything. CYA has a strong affinity for chlorine so most of the chlorine in the water is bonded to CYA.

There are 6 different chlorine-CYA reaction compounds. The following is the primary relevant chemical equation:



chlorine bound to cyanuric acid and water forms hypochlorous acid and cyanurate ion

Notice that there are two arrows. This is because the reaction can go in either direction (equilibrium). Also, for illustration purposes, the arrow pointing to the left is larger than the arrow pointing to the right. This is because at typical CYA levels in a pool, the vast majority of chlorine is bound to CYA

In fact, at a pH of 7.5 and a CYA of 30 ppm, 97.2% of the chlorine is bound to CYA. Therefore, with a pH of 7.5 there is only about 1.5% hypochlorous acid (HOCl), and 1.5% hypochlorite ion (OCl<sup>-</sup>) available for disinfecting and oxidizing. Remember that at a pH of 7.5, there is about 50% HOCl and 50% OCl<sup>-</sup>.

Based on the amount of chlorine bound to CYA and based on the pH of the water we can calculate if there is more than the 0.05 ppm of HOCl that is needed to kill algae in the water.

Here are some charts showing the amounts of HOCl available at a pH 7.2, 7.5 and 7.8 and various CYA concentrations.

**Green** = Algae are killed (HOCl > 0.05 ppm)

**Orange** = Algae might be killed (HOCl > 0.011 but < 0.05 ppm)

**Red** = Algae are NOT killed (HOCl < 0.011 ppm)

CYA is more than 40 ppm and the pH is 7.2.

The next three charts (reading across) are for a pH of 7.5. For a FC of 2.0, algae are killed with a CYA of 0 and 10 ppm CYA indicated by the green numbers. At 3.0

have 70 ppm CYA then you need 5.25 ppm FC (70 x 0.075 = 5.25). By having FC at 7.5% of CYA, the amount of HOCl will be more than the 0.05 ppm HOCl needed for algae control.

Of course, having a FC of

regular chlorinating source then the CYA is going to be increasing rapidly. For each 10 ppm of FC there will be an increase in CYA of 6.0 ppm. The average pool in summertime sun loses about 1.5 to 2.0 ppm FC per day just due to sunlight. So in a week, the loss is 10 to 14 ppm of FC. Add some swimmers and the weekly loss could go to 15 to 20 ppm of FC. This will mean that if trichlor is used, the CYA will increase by 9 to 12 ppm per week. This means that the FC level would need to be increased by about 1.0 ppm each week to prevent algae. If the CYA level goes up and the FC level is not raised to compensate then there may not be enough FC to kill algae. This may be one of the reasons that a pool is fine at the beginning of summer but as the CYA increases there will be a point at which the HOCl level (less than 0.05 ppm) is insufficient to prevent algae growth.

### Using Hypochlorite Does Not Raise pH or CYA

If you use liquid chlorine (sodium hypochlorite), liquid bleach (sodium hypochlorite), cal hypo (calcium hypochlorite) or lithium hypo (lithium hypochlorite) for regular chlorination, the CYA will not increase so you can keep a level of 30-50 ppm. Also, all of these hypochlorites have a net zero effect on pH. If you use hypochlorite, the pH of the pool water will not go up. The reason is that when you initially add one of these hypochlorites the pH goes up slightly because there is some excess hydroxide in them. But when the chlorine is used or destroyed by sunlight the reaction creates HCl which offsets the hydroxide giving a net zero change in pH.

### Lowering the Amount of FC Needed

There are ways to lower the FC requirement of 7.5% of CYA. Anything that oxidizes or kills will lower the requirement. You could use ozone, UV, enzymes, phosphate removers, algacides, mineral purifiers, copper or silver ionizers and non-chlorine shock. You can also use a SWG (Salt Water Chlorine Generator) will lower the required FC from 7.5% to 5%. You will need to keep a slightly higher CYA of about 50-80 ppm and you will need to watch the pH as SWGs will raise pH.

### Testing Is Important

It should be clear that it is important to have accurate tests for pH, free chlorine and cyanuric acid. You must know that you have enough free chlorine (technically 0.05 ppm HOCl) to prevent algae growth. You can only know the proper amount of free chlorine if you know the cyanuric acid level and the pH.

### Final thoughts

Clearly keeping a free chlorine level of 2.0 to 4.0 ppm may or may not keep algae and bacteria from growing because it depends on the CYA level and the pH. With the information in this article you will be better able to manage the disinfection level in a pool to prevent algae and bacteria growth. Now you have a way to know how much chlorine you need in any pool. It's not the same for every pool.

FC 2.0 ppm, pH 7.2 and Temp 80° F			
CYA ppm	HOCl ppm	OCl ppm	HOCl Available
0	1.286	0.714	64.30 %
10	0.106	0.059	5.30 %
20	0.048	0.027	2.40 %
30	0.031	0.017	1.55 %
40	0.023	0.013	1.15 %
50	0.018	0.010	0.90 %
60	0.015	0.008	0.75 %
70	0.013	0.007	0.65 %
80	0.011	0.006	0.55 %
90	0.010	0.005	0.50 %
100	0.009	0.005	0.45 %
150	0.006	0.003	0.30 %
200	0.004	0.002	0.20 %

FC 3.0 ppm, pH 7.2 and Temp 80° F			
CYA ppm	HOCl ppm	OCl ppm	HOCl Available
0	1.930	1.070	64.33 %
10	0.185	0.103	6.17 %
20	0.078	0.043	2.60 %
30	0.049	0.027	1.63 %
40	0.035	0.020	1.17 %
50	0.028	0.015	0.93 %
60	0.023	0.013	0.77 %
70	0.019	0.011	0.63 %
80	0.017	0.009	0.57 %
90	0.015	0.008	0.50 %
100	0.013	0.007	0.43 %
150	0.009	0.005	0.30 %
200	0.007	0.004	0.23 %

FC 4.0 ppm, pH 7.2 and Temp 80° F			
CYA ppm	HOCl ppm	OCl ppm	HOCl Available
0	2.573	1.427	64.33 %
10	0.289	0.160	7.23 %
20	0.112	0.062	2.80 %
30	0.068	0.038	1.70 %
40	0.049	0.027	1.23 %
50	0.038	0.021	0.95 %
60	0.031	0.017	0.78 %
70	0.027	0.015	1.68 %
80	0.023	0.013	0.58 %
90	0.020	0.013	0.50 %
100	0.018	0.010	0.68 %
150	0.012	0.001	0.30 %
200	0.001	0.005	0.02 %

FC 2.0 ppm, pH 7.5 and Temp 80° F			
CYA ppm	HOCl ppm	OCl ppm	HOCl Available
0	0.949	1.051	47.45 %
10	0.091	0.100	4.55 %
20	0.041	0.046	2.05 %
30	0.027	0.029	1.35 %
40	0.020	0.022	1.00 %
50	0.015	0.017	0.75 %
60	0.013	0.014	0.65 %
70	0.011	0.012	0.55 %
80	0.010	0.011	0.50 %
90	0.008	0.009	0.40 %
100	0.008	0.008	0.40 %
150	0.005	0.006	0.25 %
200	0.004	0.004	0.20 %

FC 3.0 ppm, pH 7.5 and Temp 80° F			
CYA ppm	HOCl ppm	OCl ppm	HOCl Available
0	1.435	1.565	47.83 %
10	0.158	0.175	5.27 %
20	0.067	0.074	2.23 %
30	0.042	0.046	1.40 %
40	0.030	0.034	1.00 %
50	0.024	0.026	0.80 %
60	0.020	0.022	0.67 %
70	0.017	0.017	0.57 %
80	0.015	0.015	0.50 %
90	0.013	0.014	0.43 %
100	0.012	0.013	0.40 %
150	0.008	0.008	0.27 %
200	0.006	0.006	0.20 %

FC 4.0 ppm, pH 7.5 and Temp 80° F			
CYA ppm	HOCl ppm	OCl ppm	HOCl Available
0	1.898	2.102	47.45 %
10	0.248	0.274	6.20 %
20	0.097	0.107	2.43 %
30	0.059	0.065	1.48 %
40	0.042	0.047	1.05 %
50	0.033	0.036	0.83 %
60	0.027	0.030	0.68 %
70	0.023	0.025	0.58 %
80	0.020	0.022	0.50 %
90	0.017	0.019	0.43 %
100	0.016	0.017	0.40 %
150	0.010	0.011	0.25 %
200	0.008	0.008	0.20 %

FC 2.0 ppm, pH 7.8 and Temp 80° F			
CYA ppm	HOCl ppm	OCl ppm	HOCl Available
0	0.623	1.377	31.15 %
10	0.079	0.176	3.95 %
20	0.037	0.082	1.85 %
30	0.024	0.053	1.20 %
40	0.018	0.039	0.90 %
50	0.014	0.031	0.70 %
60	0.012	0.026	0.60 %
70	0.010	0.022	0.50 %
80	0.009	0.019	0.45 %
90	0.008	0.017	0.40 %
100	0.007	0.015	0.35 %
150	0.005	0.010	0.25 %
200	0.003	0.008	0.15 %

FC 3.0 ppm, pH 7.8 and Temp 80° F			
CYA ppm	HOCl ppm	OCl ppm	HOCl Available
0	0.935	2.065	31.17 %
10	0.138	0.304	4.60 %
20	0.060	0.132	2.00 %
30	0.038	0.084	1.27 %
40	0.028	0.061	0.93 %
50	0.022	0.048	0.73 %
60	0.018	0.040	0.60 %
70	0.015	0.034	0.50 %
80	0.013	0.029	0.43 %
90	0.012	0.026	0.40 %
100	0.011	0.023	0.37 %
150	0.007	0.015	0.23 %
200	0.005	0.011	0.17 %

FC 4.0 ppm, pH 7.8 and Temp 80° F			
CYA ppm	HOCl ppm	OCl ppm	HOCl Available
0	1.246	2.754	31.15 %
10	0.212	0.468	5.30 %
20	0.087	0.191	2.18 %
30	0.053	0.118	1.33 %
40	0.038	0.085	0.95 %
50	0.030	0.066	0.75 %
60	0.025	0.054	0.63 %
70	0.021	0.046	0.53 %
80	0.018	0.040	0.45 %
90	0.016	0.035	0.40 %
100	0.014	0.031	0.35 %
150	0.009	0.021	0.23 %
200	0.007	0.015	0.18 %

The first three charts (reading across) are for a pH of 7.2. For a FC of 2.0 ppm, algae are killed with a CYA of 0 and 10 ppm indicated by the green numbers. At 3.0 FC, algae are killed with up to 20 ppm CYA. And at 4.0 FC, algae are killed with up to 30 ppm CYA. You can also see that algae are not killed with even 4.0 ppm FC when

FC, algae are killed with up to 20 ppm CYA. And at 4.0 FC, algae are killed with up to 30 ppm CYA. You can see that algae are not killed with even 4.0 ppm FC when CYA is more than 40 ppm and the pH is 7.5.

Please understand that the amount of chlorine bound to CYA and the amounts as HOCl and OCl<sup>-</sup> are in equilibrium. This means that as some HOCl is used it is replaced by some OCl<sup>-</sup> and some chlorine that is bound to CYA becomes free chlorine. So if there is 1.0% of the FC in the water as HOCl there will always be 1% until all the FC is used. You can think of the amount of chlorine bound to CYA as a reservoir of free chlorine. We need to make sure that the 1% is enough to kill algae – greater than 0.05 ppm HOCl.

Looking at these charts to figure out if you have enough FC to kill algae in any given pool is tedious and it means you would need to refer to the charts all the time. Here is an easier way.

**Free Chlorine must be a minimum of 7.5% of the CYA level.**

If you have 50 ppm of CYA then you need 3.75 ppm FC minimum (50 x 0.075 = 3.75). If you

more than 5.0 ppm is not recommended. When CYA is more than about 70 ppm, you should drain some water so that an FC level of 7.5% of the CYA will be below 5.0 ppm.

### What If CYA Is Not Used?

Looking at the above charts, you might be asking yourself what if I don't use CYA. The answer is you could but it would be expensive and require that you add chlorine multiple times per day. The real world UV degradation of chlorine in a swimming pool is about 75% loss in 2 hours. The next 2 hours the loss is 75% of that. The chlorine that you added will be almost zero in 4 hours. Let's say you start with 4.0 ppm FC. In 2 hours you lose 75% of 4.0 or about 3.0 ppm is gone. In the next 2 hours you lose 75% of 1.0 ppm or 0.75 ppm. Now you have only 0.25 ppm FC. In 4 hours you basically have no free chlorine in the water.

CYA slows down the FC loss due to UV degradation from sunlight. In fact, 30 ppm of CYA keeps chlorine in the water 8 times longer than without it.

### CYA Increases

If trichlor is being used as a

## World Aquatic Health™ Conference

Continued from page 19

Treatment Systems (ETS), Hayward Commercial, Hydro-Fit, Inc., NSF International, Pentair Water Commercial Pool, and Water Safety Products.

"The foundation of our field is science. Leaders are attracted to the World Aquatic Health Conference to see what wisdom is being built on our foundation," explained Thomas M. Lachocki, Ph.D., CEO of the National Swimming Pool Foundation. "This scientific conference is the candle that illuminates the wise way forward," he concluded.

### WAHC On-Demand

The seminars from the 2012 World Aquatic Health Conference are available on-demand and can be accessed at <http://nspf.netro.ca/Products.aspx>. Many organizations

schedule a meeting with team members to watch a seminar together. The availability of the seminars online, on-demand at low cost, is an attractive solution for those who were unable to attend or wish to see seminars than ran congruently. The complete library of past seminars may be found at [www.nspf.org](http://www.nspf.org) and click on online training.

### WAHC 2013 Indianapolis

The tenth annual World Aquatic Health™ Conference is scheduled for October 16-18, 2013 in Indianapolis, at the Hyatt Regency Downtown. Send an email to [conference@nspf.org](mailto:conference@nspf.org) to sign up for more information when it is available. "We are encouraging companies and organizations to contact us to schedule.

# IPSSA CHAPTER LISTINGS

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**For billing or Benevolent Fund information:** call Clint Cramer CPAat (888) 391-6012, FAX (888) 391-6203, e-mail clint@cramercpa.com or P.O. Box 1617, Rocklin, CA 95677

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**REGION 1 (NORTHERN CALIFORNIA)**

**B.O.R.D. Member: David Durkin**  
(925) 757-1311

E-mail: d.melectricpoolsrepair@yahoo.com

**CAPITAL VALLEY: (Sacramento)**

First Wed., 7 p.m.  
VFW, 8990 Kruithof Way, Fair Oaks  
Pres. Gregg Simon (916) 536-9165

**DELTA: (Stockton)**

Third Wed., 6:00 p.m.  
Roundtable Pizza  
2715 W. Kettle Lane, Lodi  
Pres. Rick Plath (209) 951-7926  
service@rickspoolservice.com

**EAST BAY**

First Tues., 6 p.m., Veteran's Hall  
3780 Mt. Diablo Blvd., Lafayette  
Pres. Brian Duncan (925) 370-6675

**EAST CONTRA COSTA**

Fourth Tues., 6:00 p.m., Canton Garden Restaurant  
7840 Brentwood Blvd., Brentwood  
Pres. Dale Vaughn (925) 516-9436  
dalevaughn1176@comcast.com

**EL DORADO**

Second Thurs., 6:30 p.m., Shingle Springs Comm. Ctr.  
4440 S. Shingle Road, Shingle Springs  
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. Leland Groves (916) 420-6421

**LELAND GROVES**

lelandgroves@hotmail.com

**GOLD COUNTRY**

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**LOU LA BONTE'S**

13460 Lincoln Way, Auburn  
Pres. Donald Rosenkrans (916) 300-0383

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Third Tues., 6 p.m.

Perkos Restaurant, Kiernand Road & 99, Salida

Pres. Mark Torrence (209) 384-7425

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Fourth Wed., 6:30 p.m.

**PLAZA HOFBRAU**

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Pres. Nathan Williams (916) 213-6889

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Second Thurs., 6 p.m.,

Perko's Café, 1321 W. 11th Street, Tracy 95376

Pres. Greg Mongeau (209) 833-8109

**WEST PLACER**

First Thurs., 5:30 p.m.

Strikes Bowling Alley

5681 Lonetree Blvd., Rocklin CA 95765

Pres. Bob Morel (916) 662-4301

**REGION 2 (CENTRAL CALIFORNIA)**

**B.O.R.D. Member: Charles Dudley**

(559) 638-4794

E-mail: rpspool@verizon.net

**BAKERSFIELD**

First Tues., 5:30 p.m., Famous Dave's BBQ  
7777 Rosedale Highway, Bakersfield

Pres. James Hoffman (661) 332-3725

**CENTRAL COAST**

Second Wed., 7 p.m., Golden Gong Restaurant

290 Madonna Road, San Luis Obispo

Pres. Lloyd Dalton (805) 237-8414

**CONEJO**

Second Wed., 7:30 p.m.,

Cisco's, 1712 Avenida de Los Arboles, Thousand Oaks

Pres. Mike Morris (805) 908-5849

reliablepoolservices@gmail.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. Manuel Margain (559) 307-1072

**SANTA BARBARA**

Second Mon., 6:30 p.m., Rusty's Pizza Parlor

232 W. Carrillo, Santa Barbara (downtown)

Pres. Jeff Burich (805) 252-6607

jeff@burichpoolservice.com

**VENTURA**

Third Tues., 7 p.m., Yolanda's Mexican Cafe

2753 Main St., Ventura

Pres. Tony Funderburk (805) 482-8226

**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: Elias Duran**  
(818) 360-4749

E-mail: poolshow@aol.com

**ANTELOPE VALLEY**

Second Mon., 6 p.m.

SCP Antelope Valley, 4514 Runway Dr., Lancaster

Pres. Bob Cranmer (661) 609-3682

warren\_cranmer@msn.com

**DIAMOND BAR**

First Thurs., 7:30 p.m., Oak Tree Lanes, Diamond Bar

Pres. Robert Nichols (626) 914-4813

precision1980@verizon.net

**FOOTHILL**

Third Thurs., 7:00 p.m., American Legion Hall

La Crescenta at Manhatta, La Crescenta

Pres. Raul Fernandez (818) 563-9410

**SAN FERNANDO VALLEY**

Third Wed., 7:30 p.m., Disabled American

Veterans Hall, 6543 Corbin Ave., Winnetka

Pres. Ivan Vance (818) 376-8541

**SAN FERNANDO VALLEY METRO**

First Tues., 7 p.m., Winnetka Community Center

20122 Vanowen, Canoga Park

Web site: www.sfvmetro.com

Pres. Saul Krochmal (818) 609-8252

**SAN GABRIEL VALLEY**

Second Thurs., 7:00 p.m.

Indy Mac Bank, 100 E. Foothill Blvd., Arcadia

Pres. Terry Snow (909) 985-1830

tls.pools@verizon.net

**SANTA CLARITA VALLEY**

First Thurs., 7:00 p.m.

Call for meeting location and directions

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**

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Paul Church, 4120 W. Pico Boulevard, Los Angeles

Pres. Seak Koon Byun (626) 289-9056

**EAST LONG BEACH**

Second Thurs., 6:30 p.m., Ferraro's Cucina Italiana

3500 N. Los Coyotes Diagonal, Long Beach

Pres. Jim Burkhalter (562) 461-9555

**SOUTH BAY**

Second Wed., 7 p.m., American Legion Hall

412 S. Camino Real, Redondo Beach

Pres. Rick Morris (310) 755-5279

**WESTSIDE**

Second Tues., 6:30 p.m., American Legion Hall

5309 S. Sepulveda, Culver City

Pres. Ric Burgess (310) 569-8005

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First Wed., 7 p.m.

Superior Pool Products in Santa Fe Springs

Pres. Tom Horning (562) 458-2881

tomspoolcare@roadrunner.com

**REGION 5 (ORANGE COUNTY)**

**B.O.R.D. Member: Jeff Theders**  
(714) 435-9080

E-mail: jeff@aquaticbalance.com

**ANAHEIM: Third Wed., 6:30 p.m.**

Roundtable Pizza, 2506 E. Chapman Ave., Fullerton

Pres. Martin Smith (949) 677-1411

bluebalancepoolservice@cox.net

**CENTRAL ORANGE COUNTY**

Last Tues., 7 p.m., Coco's, 14971 Holt Ave., Tustin

Pres. Pat Angus (949) 651-1083

**DANA POINT: Second Tues., 6 p.m.,**

Coco's, Crown Valley and I-5

Pres. Robert Sink (949) 916-8860

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Third Mon., 6:30 p.m., Round Table Pizza

Warner & Euclid, Huntington Beach

Pres. Greg Beard (714) 903-8607

**MISSION VIEJO**

First Tues., 6 p.m., Carrow's Restaurant

28502 Marguerite Parkway, Mission Viejo

Pres. Andy Bruer (949) 598-0998

**NORTH ORANGE COUNTY**

Second Wed., 7 p.m.

Polly's Pies, 18132 Imperial Highway, Yorba Linda

Pres. Rick Reyes (714) 635-5459

rickmreyes50@yahoo.com

**ORANGE COAST**

Last Monday, 5 p.m., Carrow's Restaurant

Warner & Magnolia, Huntington Beach

Pres. Michael Kei Black (714) 891-0351

mblackels@netzero.com

**ORANGE COUNTY #1**

Second Wednesday, 7:00 p.m.

Graziano's, Yorba Linda, 714-524-2770

Pres. William Corcoran (909) 279-7117

**ORANGE COUNTY #9**

Second Wed., 7 p.m., Dad Miller Golf Course

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**ORANGE COUNTY POOL PROFESSIONALS**

Last Mon., 6:00 p.m.,

Claim Jumper Banquet Room, 18050 Brookhurst St.,

Fountain Valley CA 92708

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**SADDLEBACK VALLEY**

Last Tues., 6 p.m., Lone Star Steakhouse,

24231 Avenida de la Carlotta, Laguna Hills

Pres. Scott Kather (714) 742-9597

**SOUTHWEST: First Wed., 6 p.m., ABC Pools**

10560 Los Alamitos Blvd., Los Alamitos

Pres. Ken Tipton (562) 430-8515

**SURF CITY**

Third Tues., 6:30 p.m., Superior Pool Products,

10865 Kalama River, Fountain Valley

Pres. Robert H. Foutz Jr. (714) 846-6106

rhfouz@verizon.net

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Second Tues., 6:00 p.m., PSOC Waterline Technologies,

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Pres. Rich Forby (714) 974-1514

**YORBA LINDA**

First Wed., 7 p.m., Graziano's Italian Restaurant

17487 Imperial Highway, Yorba Linda 92886

Pres. David Hartson (714) 306-4864

**REGION 6 (INLAND EMPIRE)**

**B.O.R.D. Member: Nathan Smith**  
(951) 687-1449

Web site: www.region6ipssa.com

**CORONA**

Second Tues., 7:00 p.m., Marie Callenders

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

Pres. Frank Harrington (951) 796-8208

cannonballpoolservice@yahoo.com

**HEMET: Third Wed., 6:00 p.m., El Jalapeno**

1999 N. State Street, Hemet

Pres. John Bettencourt (951) 925-2442

bettencourtpool@msn.com

**MENIFEE VALLEY**

First Wed., 7 p.m. at My Buddies Pizza

2503 E. Lakeshore Drive #A, Lake Elsinore

Pres. Lance Sada (951) 837-6322

npircipssa@verizon.net

**ONTARIO/ RANCHO CUCAMONGA**

Second Tues., 7 p.m., Carrows Restaurant

11669 Foothill Blvd., Rancho Cucamonga

Pres. Ron Goodwin (909) 989-0406

good2win@msn.com

**PALM DESERT**

Third Thurs., 7:00 p.m.

Sloan's, 81539 US Hwy 111, Indio CA

Pres. Matt Kauber (760) 775-7477

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**PALM SPRINGS**

First Wed., 6:30 p.m.

Elks Lodge, 67491 Elk Drive, Palm Springs

Pres. Ken Pomije (760) 413-6022

# 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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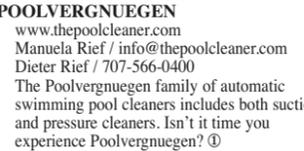
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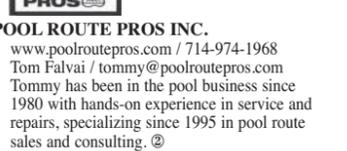
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