



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 XXIV, NUMBER 9

September 2012

## Know your electrical code

By Dave Durkin

*Dave Durkin is the director of Region 1.*

Recently in Southern California two young girls were shocked by a pool light in a residential pool. According to 680 of the NEC all pool lights must be potted around the bulb, grounded, and the light niche and fixture must be bonded with the rebar of the pool. The bonding must include all electric motors and any metal larger than 2 inches in the pool or spa. Listed below are some different types of proper installation:

- Never work on a light that is not properly grounded or a light that is not properly bonded.
- Pools built before 1965 had pool light junction boxes in the deck. If you are not a qualified C10 or C53, I recommend that you do not work on these pools. At that time, no grounding was required and rigid steel pipe was the ground. Unfortunately, these steel conduits are long gone as they have disintegrated in the ground.
- Deck J boxes should be removed and replaced by new UL approved deck boxes. I suggest that you do not repair residential pool lights as most are very old and in need of replacement.
- Check the cord to see if it is swollen or gray. If this is the case, replace the fixture on lights with 1" PVC, check the potting in the light niche, and if necessary replace it as well.
- On commercial pools where lighting is needed for safety, it is okay to repair if the cord is in good condition. You should also replace the gasket on the lens. If any light fixture has water inside, replace the fixture. Remember to be sure to test the ground fault circuit breaker. If it doesn't test properly make sure you replace it.

A good test for bonding is to unhook the pool cord ground wire in the j box and put a meter lead on the cord green wire and the other lead on the incoming ground wire. You should have less than 1 Ohm of resistance. If you have more than that you should call in a contractor who can make sure the bonding is intact.

If you have any electrical questions please feel free to call me at (925) 757-1311, D & M Electric Pool Spa Repair.



Grant Ross IPSSA Tucson chapter president presents a check for \$1,250 to Kerri Dufor with the YMCA of Southern Arizona along with board members Steven Nelson (left) and John Greenough. See story, page 13.

## New method of pool chemical treatment

By Robert W. Lowry

Here is a method of chemically treating pool water that uses the information presented in two articles that appeared in the July and August editions of the IPSSAN. The articles were "Cyanuric Acid: It Controls Your Pool" and "Using Air and Acid to Get Perfect pH and Alkalinity Quickly." This method makes taking care of pool water easy and best of all, water balance is stable. It is written for residential pools but could be adapted to commercial or public pools but commercial and public pools must comply with all state and local health codes. Some of the suggestions for water treatment given here are not within health code guidelines for commercial or public pools.

It is called Honest Pool Care because it only considers the scientific facts presented in the two articles and does not contain any sales hype or biased information from chemical and sanitizer manufacturers. It is a complete method of chemically treating pool water.

### Honest Pool Care 1-2-3

This method assumes you are familiar with pool chemicals, maintenance and water chemistry. It differs from your current method, but it is effective and easy to use. It works best with liquid chlorine.

- 1 – Test & Balance
- 2 – Disinfection & Oxidation
- 3 – Filtration & Circulation

### Overview

The main things to understand

about Honest Pool Care 1-2-3 are:

- pH should be between 7.5 and 7.8.
- TA (total alkalinity) should be between 60 and 90 ppm.
- TA and CYA (cyanuric acid) prevent pH decreases.
- Borates prevent pH increases.
- TA and pH are decreased with acid; aeration increases pH.
- CYA (cyanuric acid) or

*Continued on page 6*

## 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!

There are dozens of courses available, in the following categories:

- Aquatic courses
- Electrical safety courses
- Occupational safety courses
- Environmental management courses
- Department of Transportation courses
- Healthcare courses
- Employment law courses

Plus three courses are available in Spanish.

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.

### Things to do in September

- Wear sun screen and reapply often
- Wear hats
- Drink lots of water

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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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## Larry Kirkorian wins the July Education Corner quiz

Larry Kirkorian, a member of the Fresno IPSSA chapter, was selected randomly among all of the correct entries for the July 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 July quiz are: 1) The chemical that protects chlorine from sunlight destruction is called: A. Cyanuric acid B. Conditioner C. Stabilizer D. All of the above. *The correct answer is D. All of the above.* 2) The regular sanitizer you are using determines the proper total alkalinity for the pool. A. True B. False. *The correct answer is A. True.* 3) Adding 10 fl. oz. of sodium hypochlorite to 10,000 gallons of water will increase the chlorine level by 1.5 ppm. A. True B. False. *The correct answer is B. False.* 4) Getting liquid chlorine (sodium

hypochlorite) in your eyes can only 15 seconds. A. True B. False. cause permanent corneal damage in *The correct answer is A. True.*

## Calendar of Events

Sept. 6-7	<b>CPO Class</b> Superior Pool Products, Anaheim, California <a href="http://www.anotherperfectpoolnews.com/cpo">http://www.anotherperfectpoolnews.com/cpo</a>
Sept. 13-14	<b>CPO Class</b> El Monte Aquatic Center, El Monte, California <a href="http://www.anotherperfectpoolnews.com/cpo">http://www.anotherperfectpoolnews.com/cpo</a>
Sept. 27-29	<b>Pool Industry Expo</b> Monterey, California
Oct. 4-5	<b>CPO Class</b> Superior Pool Products, California <a href="http://www.anotherperfectpoolnews.com/cpo">http://www.anotherperfectpoolnews.com/cpo</a>
Oct. 4-5	<b>CPO Class</b> SCP, San Antonio, Texas Mark Posson, 210-725-5889
Oct. 10-12	<b>World Aquatic Health Conference</b> Norfolk, Virginia <a href="http://www.nspf.org/en/Conference/Conference2012.aspx">http://www.nspf.org/en/Conference/Conference2012.aspx</a>
Oct. 25-26	<b>CPO Class</b> SCP, San Diego, CA <a href="http://www.anotherperfectpoolnews.com/cpo">http://www.anotherperfectpoolnews.com/cpo</a>
Nov. 6-8	<b>International Pool   Spa   Patio   Expo</b> Morial Convention Center, New Orleans, Louisiana <a href="http://www.poolspapatio.com">http://www.poolspapatio.com</a>
Nov. 8-9	<b>CPO Class</b> Superior Pool Products, Anaheim, California <a href="http://www.anotherperfectpoolnews.com/cpo">http://www.anotherperfectpoolnews.com/cpo</a>
Nov. 29-30	<b>CPO Class</b> SCP, Riverside, CA 92597 <a href="http://www.anotherperfectpoolnews.com/cpo">http://www.anotherperfectpoolnews.com/cpo</a>

## WELCOME NEW MEMBERS!

**REGION 8 – East Valley:** Jeb Braeutigam. . . **VIPS:** Joe Daley. . .  
**REGION 9 – Houston:** Roland R Gilliam Jr. . . **REGION 10 – Santa Clara:** Ronald Larkin

## Jim McTheeney wins a Basic Training Manual Part 1 – Water Chemistry!

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

Jim McTheeney, from St. Petersburg, Florida was selected randomly among all of the correct entries for July and will receive an IPSSA Basic Training Manual Part 1 – Water Chemistry.

The correct answer for the July sweepstakes question is: How many chapter meetings must a prospective member attend in order to join IPSSA? *Answer: Three*

## Enter To Win: Basic Training Manual Part 2 - Equipment!



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:

In what year did IPSA and Cal-IPSA merge to form IPSSA? (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 **OCTOBER 20, 2012**

\* WIN AN \*  
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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 **OCTOBER 20, 2012**.

- 90 percent trichlor has about 55 percent cyanuric acid.  
A. True  
B. False
- Water Testing involves: Testing, comparing and deciding.  
A. True  
B. False
- What is the volume of a rectangular pool that is 20 feet by 40 feet with an average depth of 5 feet?  
A. 4,000 sq. ft.  
B. 4,000 cu. ft.  
C. 20,000 gallons  
D. 800 sq. ft.
- The acceptable Saturation Index range is:  
A. -1.0 to +1.0  
B. -0.3 to +0.3  
C. 20 ppm  
D. All of the above

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:

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Or Fax to: (888) 368-0432

Entries for this month must be received by **OCTOBER 20, 2012**.

Enter to win



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CONFERENCE:  
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# Ben Solakian, pioneer and innovator passes away at 80

Ben Solakian, founder and CEO of Val-Pak Products, passed away suddenly on July 14, he was 80. Solakian was a pioneer and innovator in the pool and spa industry starting in 1958. After founding Summerset Pool Service, Solakian sold the business in 1964 and started Valley Boiler Service in Van Nuys, Calif., a

heater, pump and motor repair shop devoted to the needs of the pool service tech. He sold this in 1969 and began pool remodeling and repair.

After a few years he realized the need for replacement parts for obsolete pool equipment. Solakian started making parts for pumps that had been discontinued by the

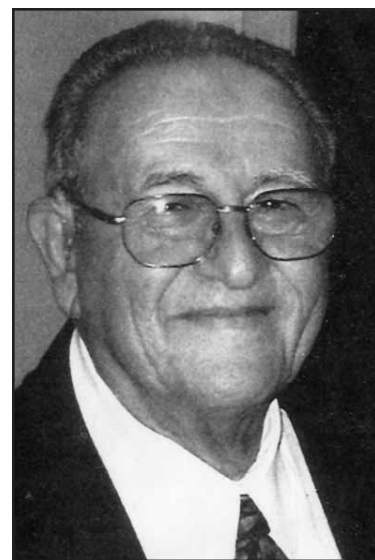
manufacturer.

Then in 1979 he opened Val-Pak Products. The company grew rapidly as new parts were introduced, each one carefully designed to meet and often exceed OEM specs. Val-Pak now produces more than 500 parts.

Solakian was a member of IPSA which proceeded Cal-Ipsa and the merger which created

IPSSA. He was also a founding member and past-president of the Western Pool & Spa Show which is dedicated to the training and continued education for the pool service tech.

Solakian is survived by his wife of 53 years, Virginia, his son and business partner Mike, daughter Linda, and 3 grandchildren.



Ben Solakian

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## Financial office thanks chapters with prompt payments

The Financial Office thanks the following 25 chapters, whose members all paid promptly in August before second notices were required:

Region 1 – Sacramento City, Tracy, West Placer  
Region 2 – Fresno, Santa Barbara, Visalia  
Region 3 – Diamond Bar  
Region 5 – Anaheim, Hunting-

ton Beach

Region 6 – Corona, Palm Desert  
Region 7 – Rancho Del Mar

Region 8 – Las Vegas, North Phoenix, Northwest Las Vegas, West Valley, Western Las Vegas

Region 9 – Austin, Fort Worth  
Region 10 – Fremont, Monterey Coast

Region 11 – Manasota, North Georgia, Sarasota, Venice

## IPSSA has new membership application forms

Important changes have been made to the new member application forms. Effective July 1, all new member applications should be submitted on the new forms.

All chapter presidents have been emailed the new form, and it is available for download at [www.ipssa.com](http://www.ipssa.com).

If you'd like a supply of the three-part forms, call 888-369-9505 or email [info@ipssa.com](mailto:info@ipssa.com).

Order Training Manuals at  
[www.ipssa.com/resources/ipssa-store](http://www.ipssa.com/resources/ipssa-store)

## Policy on IPSSA mailing list

The IPSSA general membership mailing list will not be given out to anyone including members, associate members or outside organizations. This policy has been established to protect members from possibly being placed on inappropriate and or indiscriminate lists.

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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).*

A serviceman in Houston, Texas, wrote to me recently about a customer with an in-ground 18,000-square-foot rectangle shaped concrete pool with no spa... "She has two small children and wants to install a new 400,000-BTU MasterTemp to heat their pool," he wrote. "This way they can use their pool longer throughout the season, and get more enjoyment from it. Her husband is worried about the costs to run the heater, so she asked me to give her a ballpark idea about how much she can expect it to cost."

To answer this question correctly, it's important to know and understand a few simple things:

1) A 400,000 BTU heater will use 4 therms or 40 cubic feet of natural gas per hour.

2) One gallon of water weighs 8.33 pounds.

3) 1 BTU will raise 1 pound of water 1 degree F.

Using this information, you can estimate how long it will take to heat water in a particular pool with a particular heater.

Start with the number of gallons (18,000) and multiply by 8.33 to determine how many pounds of water in the pool.

$18,000 \times 8.33 = 149,940$  pounds of water.

Then, for the sake of this example, let's assume the water is starting at 65 degrees and you want it to be 80. That is a 15-

degree rise. Multiply how much water you have (in pounds) by the number of degrees you want to add to it (15) to determine how many BTUs you need.

$149,940 \times 15 = 2,249,100$  BTUs needed in this example.

A 400,000-BTU MasterTemp heater has an output BTU of 336,000 (because its efficiency is rated at 84 percent), so next divide the number of BTUs needed by the number of BTUs the heater can generate, and you get the number of hours it will take for that heater to increase that pool's temperature by 15 degrees:

$2,249,100 \div 336,000 = 6.7$  hours

Now you know that it will probably take almost 7 hours for a 400,000-BTU heater rated at 84% efficiency to increase the water temperature of an 18,000-gallon



pool from 65 to 80 degrees.

To figure out what that will cost in dollars, you need to know how units of fuel are priced in your area. Typically, gas is priced by the therm or by the cubic foot.

If gas is priced by the therm, then you'll need to know that 1 therm = 100,000 BTU's, and a 400,000-BTU heater uses 4 therms per hour.

If your customer's utility company charges by the cubic foot, then you need to know that 1 cubic

foot = 1000 BTUs, and a 400,000-BTU heater uses 40 cubic feet of natural gas per hour.

Use the calculation of how long the heater will run (6.7 hours) and multiply that by 4 to determine the number of therms ( $6.7 \times 4 = 26.8$  therms) or multiply by 40 if you're dealing with cubic feet ( $6.7 \times 40 = 268$  cubic feet).

Last but not least, look at a recent utility bill to figure out what the homeowner pays for gas and multiply that number by the number of therms or cubic feet required to heat the pool. That will give you the cost to increase the water temperature by 15 degrees.

As scientific as this seems, it is still only an estimate because it does not take into account air temperature, wind, rain, or other factors that affect heat loss. There are many factors in the cost of heating pool water. On a cold windy day when the pool is uncovered, the heater is fighting against some pretty strong environmental fac-

tors. (We always recommend covering pools when not in use to retain heat and water). If the air is warm and still, and the pool is covered, then the heat loss factor will be far less dramatic, meaning the heater will not have to work as hard.

It may seem complicated if you've never done this before, but being able to estimate heating costs and explain how environmental factors affect those costs are great skills to have.

*Send Your Technical Questions*

*to:*

*The IPSSAN*

*10842 Noel Street #107*

*Los Alamitos, CA 90720*

*Fax: (888) 368-0432*

*or email: [info@ipssa.com](mailto:info@ipssa.com)*

## It pays to designate beneficiaries

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.

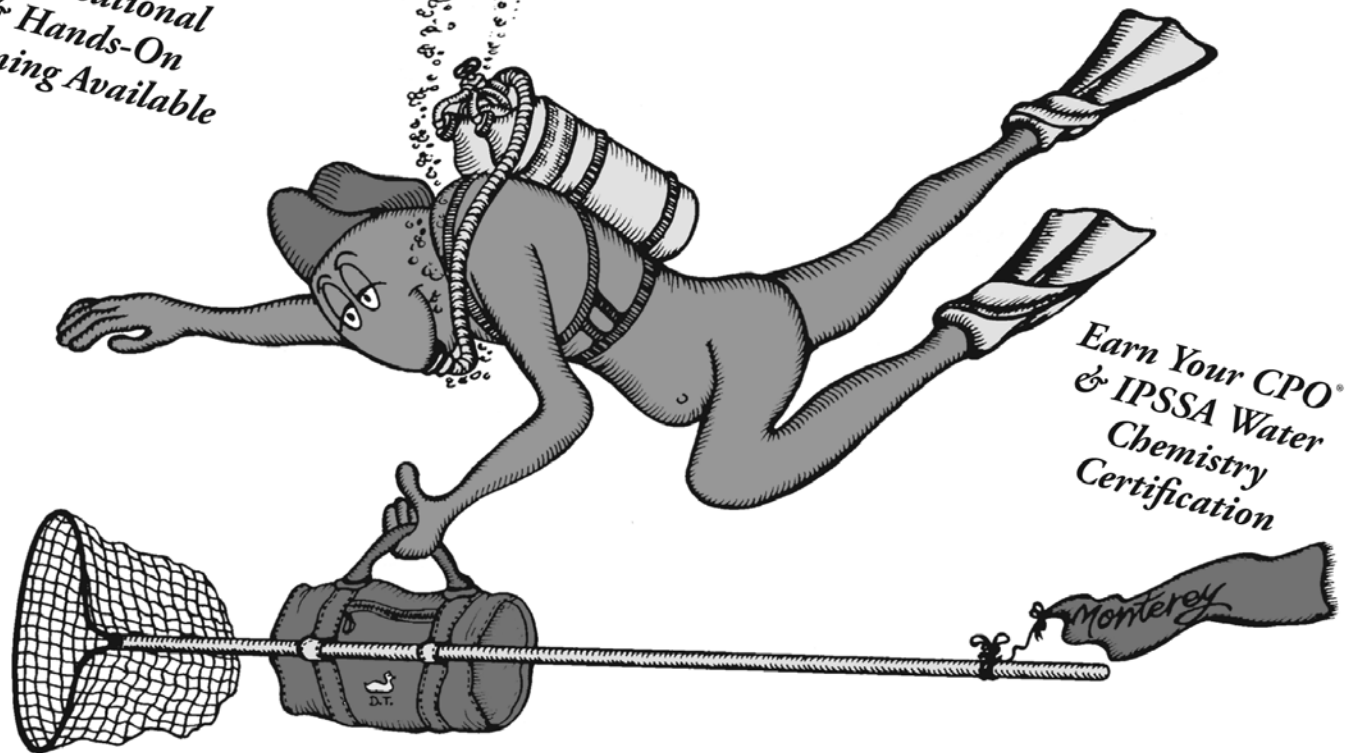
The good news is that, when your Beneficiary Designation Form is on file at the IPSSA financial office, the check for your life insurance benefit is issued as soon as the death certificate is received by the insurance company.

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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New method of pool chemical treatment

Continued from page 6

The main reason to use borate is to keep the pH from rising. Bicarbonates (TA) and cyanurates (cyanuric acid in water) form buffer systems which prevent pH decreases. They buffer more strongly against large drops in pH. Borates are a buffer system that prevents pH increases. They buffer more strongly against large rises in pH. The minimum borate concentration needed is 30 ppm but the ideal amount is 50 ppm.

The others reasons for using borates are: algaestatic properties, reduced chlorine usage, silkier feeling water with less skin and eye irritation, and clearer, sparkling water.

Borate level only needs to be checked occasionally. This will help prevent a pH upward drift. You will need a borate test method or locate a pool store that has a test for it or you may buy some borate test strips from an online seller.

**STEP 2 – Disinfection and Oxidation – Add Chlorine**  
FC (Free Chlorine) minimum is 7.5% of CYA  
The proper amount of FC depends on the CYA level.

CYA (ppm)	Minimum FC (ppm)	Ideal FC (ppm)	Shock (ppm)
	7.5% of CYA	11.5% of CYA	40% of CYA
20	2	3	10
30	2	4	12
40	3	5	16
50	4	6	20
60	5	7	24
70	5	8	28
80	6	9	31
90	7	10	35
100	7	12	39

Notes: Original idea for this chart from Ben Powell. This version differs. Amounts are rounded. Minimum FC 2.0 ppm. Ideal is a general term for a typical pool. Shock is for removing combined chlorine or for after very high bather loads. It is recommended that CYA level be reduced by draining and refilling water rather than maintaining FC level greater than 6.0 ppm. SWG (salt water

chlorine generator pools need a minimum FC of 5% of CYA.  
FC must always exceed the minimum, or algae can flourish depending on nutrients, bacteria can grow depending on other conditions and chloramines will be formed. The minimum FC shown here is the absolute minimum. Do not allow FC to go below it. If the algae nutrient level is low, then algae may not grow. Phosphate remover products remove ortho-phosphates which means that a lower FC concentration would be required to prevent algae. Using an algaecide or phosphate remover will lower the minimum FC requirement.

Most uncovered outdoor pools will lose about 2 ppm of FC every day in the summer because of UV induced degradation even in the presence of CYA. This does not include swimmer chlorine demand. Obviously this means that chlorine cannot be added just once a week. It would require 14 ppm of chlorine at a CYA level of 100 ppm CYA to last a week in sunny areas where the resulting FC would be around 4 ppm at the end

of the week. Conditions may necessitate more frequent additions of chlorine. Checking the FC level daily is a good way to determine how often this is. Shocking is unnecessary if the correct minimum FC level is always maintained.  
**Which Type of Chlorine to Use**  
Although it may cause a momentary increase, liquid chlorine has no net permanent effect

on pH. The pH of the water will go up when liquid chlorine is added but as it is used, the pH goes back down. (Note: some chlorinating liquids with a pH more than 13.0 can cause a slight increase in pH.)  
Use liquid chlorine from a pool store or use liquid bleach from a super market or home center. The only difference is the percent of chlorine and the pH. If liq-

uid chlorine is not sold at your local pool store, buy liquid bleach from the grocery store, chain discount store or home center. Just be sure to buy the type of bleach that has no additives, fragrance or detergent. It is best to use a liquid chlorine dispenser or small metering pump to dispense the chlorine or bleach but you certainly can add chlorine manually. You may

also decide to use a SWG (Salt Water Chlorine Generator).  
Cal hypo can be used. It is more dangerous to store than liquid chlorine. It too has a net zero pH effect and it increases hardness level by about 7 ppm for each 10 ppm of FC. Your CH level may rise when using cal hypo as the main chlorinating source. Lithium

Continued on page 8

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## New method of pool chemical treatment

Continued from page 7

hypo is another alternative. It has no net effect on pH, but it is relatively expensive.

If trichlor is used, be aware that the pH and TA are decreased because of the acidic nature of the product. The TA will need to be kept between 100 and 120 ppm with a pH of 7.5-7.8. In addition, trichlor contains a significant amount of CYA. Trichlor is very convenient to use due to the tablets continual dosing. Many trichlor users are reluctant to switch because liquid chlorine requires multiple additions every week or using a liquid feeder.

For every 10 ppm of FC (free chlorine) added by trichlor, it raises CYA by 6 ppm. Considering that the average outdoor pool will lose about 2.0 ppm per day of FC, in a week just due to UV degradation, you will need 14 ppm FC which will increase CYA by 8.4 ppm per week. Add bather load to that and you can see that CYA can increase rapidly. We do not recommend using trichlor as a sole source of chlorine because the CYA can reach more than 50 ppm in less than one month.

For every 10 ppm of FC (free chlorine) added by dichlor, it raises

CYA by 9 ppm. However, dichlor is not used often for regular chlorination. Dichlor is near neutral in pH so it does not affect pH. But when the chlorine is used or consumed it creates some acid so it will lower TA and pH with continued use.

Once CYA is increased to 50 ppm or more, switch to liquid chlorine, bleach or cal hypo or drain some water and refill.

### STEP 3 – Filter and Circulate

The pool pump needs to be run for a sufficient amount of time to filter all of the water. With new energy-saving pumps and older pumps in use, it can be difficult to say how long pumps should be run. However, we recommend that the water have at least one turnover per day. A turnover is the time it takes for the pump to pump a volume of water equal to the volume of the pool. For example, if the pool is 12,000 gallons and the pump flow is 50 gpm (gallons per minute) then it will require 240 minutes (12,000 gallons ÷ 50 gpm = 240 minutes) or 4 hours to attain one turnover. If the pump is a new variable speed pump, the flow may be 18 gpm. This will require 666 minutes (12,000 ÷ 18 = 666) or about 11 hours to attain one turnover. However, 11 hours on slow speed will use less electricity than 4 hours on high speed.

Circulation of water in the pool is important. Not only is it necessary for filtration but it may be necessary for dispensing chlorine or other chemicals. Many chlorinators and chemical dispensers require water flow to add chemicals. They must be run a sufficient amount of time to add the appropriate amount of chemicals. In addition, circulation in the pool is important because it brings new free chlorine to all parts of the pool. When the water is not moving, free chlorine can be used up by bacteria and algae in an area. If the water is not moving and bringing new free chlorine to that area then bacteria and algae can grow.

### How Much Chemical to Add

Chemical	Effect	Dose Amount per 10,000 gallons
Liquid Chlorine 12.5% (Pool Stores)	Raise FC 1 ppm	10.2 fl. oz
Liquid Bleach 5.25% (Groceries, discount chains, home centers)	Raise FC 1 ppm	24 fl oz
Sodium Bicarbonate	Raise TA 10 ppm	22.4 oz
Liquid Muriatic Acid (31.4% HCl)	Lower TA 10 ppm	25.6 fl oz
CYA (cyanuric acid)	Raise CYA 10 ppm	13.3 oz
Calcium Chloride 100%	Raise CH 10 ppm	13.3 oz
Calcium Chloride 77%	Raise CH 10 ppm	17.3 oz
Borax	Raise Borate 10 ppm	117.25 oz
Sodium Tetra Borate	Raise Borate 10 ppm	90 oz
Salt	Raise Salt 10 ppm	13.3 oz

### Enjoy This Easy Way to Chemically Treat Pools

Once you have completed all the above STEPS, your pool balance should be stable and only minor adjustment to pH, TA and FC should be necessary. When you first start using Honest Pool Care 1-2-3 you should test the water for pH, TA and FC two to three times a week. It will help you learn how often to add chlorine. It will also show you if the pH is drifting up or down. Remember, if the pH is drifting up, the TA is too high. Try increasing it by 10 ppm. If the pH is drifting down, the TA is too low. Try lowering by 10 ppm.

Below are some additional information for those who are curious. If you are not one of those curious people, enjoy your pool and tell your friends about Honest Pool Care 1-2-3 and how easy pool care can be otherwise, read on.

Notes: Water can be acidic, balanced or alkaline. If water is not balanced, it can harm swimmers, the pool and the equipment. If acidic, corrosion can occur. If alkaline, scaling can result. Each of these reduces the effectiveness of chlorine.

The five most important parameters to keeping the water balanced: Temperature, CH, TA, CYA and pH.

**Calcium Hardness:** The lower the CH, the calcium concentration in the water, the greater TA and pH must be for the water to be balanced. The higher the CH, the lower TA and pH must be for the water to be balanced. Your first step is to test the CH of the pool water.

If it is less than 100 ppm, add calcium chloride (hardness increaser) to increase it to 200-300 ppm. (See dose amounts in chart.) If the CH is more than 200 ppm, no further adjustment is necessary; just write it down. CH concentration is used to determine the correct TA and pH levels. Calcium should be added once to bring CH above the minimum recommended concentration of 200 ppm. CH level does not change much in pools. New plaster and the use of cal hypo for chlorination will significantly increase CH.

**pH:** pH is the measure of acidity or basicity of the water. In common use, the pH scale is 0 (highly acidic) to 14 (very basic or alkaline) with 7.0 being neutral. Values below 7.0 are acid and values above 7.0 are base. The pH of the human body usually is 7.4 –

Continued on page 19

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CHAIRMAN INEZ M. TENENBAUM

August 8, 2012

Dear Health and Safety Colleague:

After learning of the recent entrapment incident in Tennessee involving a young girl in a wading pool, I am writing to all state and local safety officials to remind you of the important role you play in ensuring that these facilities meet all safety requirements and of the importance of completing comprehensive inspections. Swimming pools, wading pools, and spas used by the public for sports, recreation, and exercise should be as safe as possible, especially those used by young children.

The Virginia Graeme Baker Pool and Spa Safety Act (P&SS Act) is intended to eliminate the hidden hazards of pool and spa drain entrapments and eviscerations. Entrapment-related fatalities occurred prior to the passage of the P&SS Act, but since the law went into effect in December 2008, there have been no reported entrapment fatalities. We want to continue this excellent safety record.

Public pools and spas are required to be equipped with compliant suction outlet covers and secondary anti-entrapment devices or systems where single-suction outlets exist. After more than three years of the P&SS Act being in effect, all public pools and spas should be in compliance with the requirements of the regulation. CPSC staff continues to inspect pools and spas and to enforce these requirements throughout the country. Because of the large number of aquatic facilities and limited CPSC staff, we depend on you and other state or local health and safety officials to help enforce the requirements of the P&SS Act.

Comprehensive inspections of pool and spa facilities are required to assure correct installation and operation of the safety device(s). You will find valuable tools and resources available on the *State and Local Officials* page on our *Pool Safely* website ([www.poolsafely.gov/](http://www.poolsafely.gov/)). Specifically, CPSC staff has developed *Guidance to Compliance*, an eight-part video training series explaining how to properly inspect pools and spas for compliance with the Virginia Graeme Baker Pool and Spa Safety Act. Please go to our *Pool Safely* website to view the videos or to request a free copy be sent to you.

I hope that we can continue to work together to make pools and spas as safe as we can for all who use them.

Very truly yours,

Inez M. Tenenbaum  
Chairman

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## Help needed with California state-wide West Nile virus threat

By Don Burns

Don Burns is president and CEO of the California Spa and Pool Education Council (SPEC) [www.calspec.org](http://www.calspec.org).

Adding significantly to California's present West Nile Virus outbreak threat are thousands of potentially stagnant swimming pools and spas at homes abandoned following lender foreclosures.

The virus is carried by mosquitoes, which require standing water for their larva to develop. Needed action: Prevent water stagnation.

In cooperation with the Mosquito and Vector Control Association of California (MVCAC), an organization of local government vector control and mosquito abatement agencies, the state's swimming pool industry is asking the cooperation of its members in the current campaign to locate and report standing bodies of water where mosquitoes can breed.

Abandoned swimming pools

*Continued on page 22*

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# SNTech announces name changes of its pool and spa motors to Dyna-Tech and Infinity

Marathon Electric by SNTech and imPower brand names will no longer be used effective August 22, 2012.

SNTech, Inc., a Phoenix, Arizona-based company specializing in the design, manufacture and distribution of highly energy efficient electric motors, announces a

name change of its entire pool and spa motor product portfolio.

Beginning Wednesday, August 22, pool and spa motors currently known as Marathon Electric by SNTech will change to Dyna-Tech motors. On the same date, the company's line of variable speed pool pump motors will change

from imPower by SNTech to Infinity motors.

The name changes will take effect in conjunction with the one-year anniversary of SNTech acquiring the two motor product lines from Regal Beloit Corporation (RBC).

"It's time to refresh these

brands with names that more accurately reflect both our values at SNTech and the dynamic attributes of the products," said SNTech CEO Shannon Bard. "The name Dyna-Tech ties into our company name and conveys power, innovation and durability. The Infinity motor line will continue to demonstrate progressive technology, set the bar for contemporary design and evolve for many years to come."

The name changes will not affect the design, functionality or warranty of any of the motors.

"Another reason for the name change is that it enables us to create new products or make future acquisitions in these categories

that will be compatible with the brands," Bard added.

Since acquiring the soon-to-be renamed Dyna-Tech and Infinity product lines last year, SNTech moved assembly operations for the motors from Mexico to its manufacturing facility in Searcy, Arkansas, which resulted in the creation of more than 30 jobs.

"We're confident that the name changes will resonate and catch on quickly with the original equipment manufacturers, distributors, contractors and retailers we're supplying," Bard says.

He adds, "Getting more American-built energy efficient motors into mainstream markets in the U.S. is our first priority, and we believe that our new pool and spa product names are a reflection of that commitment."

For more information, visit Dyna-TechMotor.com and Infinity-Motor.com.

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3. After the water is lowered, apply 300 Tile Cleaner to any remaining scale, cleaning small sections at a time(following the label directions).\*
4. ONLY 12 oz per 20,000 gallons of Salt Protect or Protect-All Supreme will help keep the pool scale free!
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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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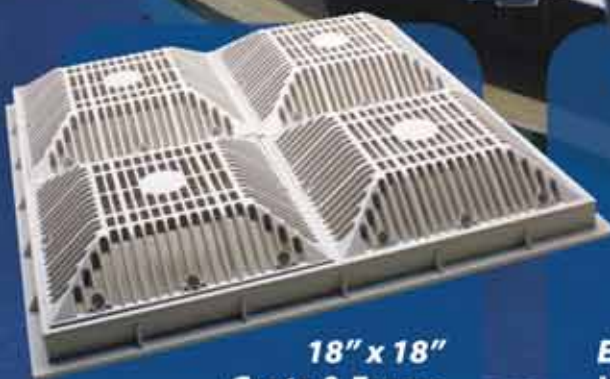


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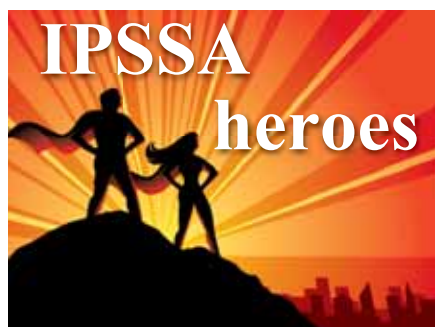


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One of the great things about IPSSA is the underlying commitment to help others in the industry. After all, this association was created on the principle of sick route coverage.

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bers and their communities. These are IPSSA Heroes.

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## IPSSA Tucson chapter supports the YMCA "All Kids Swim" program

By Steven Nelson

*Steven Nelson is the IPSSA Tucson Chapter Secretary.*

Drowning is a leading cause of death among children in the United States. Unfortunately, Arizona ranks near the top of the list. Tucson, like many local governments, has made painful budget cuts. Even with a huge local outpouring of private and corporate financial support, many area public swimming pools remain closed for a second year in a row.

"The IPSSA Tucson chapter actively supports local organizations such as the YMCA, Community Food Bank and the

Optimist Club," says Grant Ross, IPSSA Tucson chapter president. "Drowning prevention through education and safety is an IPSSA priority."

The YMCA "All Kids Swim" Tucson Program started in 2011 providing 250 kids with swimming lessons and is ramping-up to teach 1,250 kids this year. "We plan to offer ongoing support to the Tucson YMCA 'All Kids Swim' program," says John Greenough. There are other similar YMCA children swim programs in other cities, all needing your support, please check them out in your area.

## GOLFTOBERFEST 2012

# Annual golf tournament for our local veterans

## Saturday, October 13, 2012

El Dorado Independent Pool & Spa Service Association ([www.edipssa.com](http://www.edipssa.com)) is honored, both to work with the distinguished veterans who have served our great nation and to keep expanding our scope and reach through our efforts with this annual tournament whose proceeds are donated to our partner, Soldiers' Angels. More than ever, we depend on your partnership and support of our community outreach and fundraising efforts. Veterans' needs have only increased throughout Northern California with the return of our Iraq and Afghanistan veterans.

On Saturday, October 13, 2012, EDIPSSA will be hosting its annual golf tournament, Golftoberfest 2012. We invite you to join us for a day at the beautiful DarkHorse Golf Club in Auburn. In addition to meeting a group of veterans that our donations have supported like wounded warrior Spc. Joshua Steward (pictured here), who loves to trade in his wheelchair for a golf cart, you'll also meet the World Long Drive Champion, Ryan Winther and Olympian, Stephanie Brown Trafton, who are donating their time to our cause.

The greatest way that you can help is by being a sponsor. Sponsorships range from \$175 to \$10,000 and include a variety of ways to be recognized as a partner. Soldiers' Angels ([www.soldiersangels.org](http://www.soldiersangels.org)) is a non profit 501(c)(3), tax ID#20-0583415 that operates entirely on voluntary contributions. Golftoberfest has quickly become essential to its work throughout Northern California. If you would like more information about how to participate in Golftoberfest 2012 Golf Tournament, please email [eldoradoipssa@yahoo.com](mailto:eldoradoipssa@yahoo.com) or call Shawn Panico (916) 201-6245 or Mark Becker (530) 676-1500.



(See 'Matching funds available from IPSSA Inc.', Page 21)

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# APSP Career Institute featured at the 2012 Int'l Pool | Spa | Patio Expo's educational conference

Taking place just prior to the 2012 International Pool | Spa | Patio Expo [PSP] in New Orleans, the Association of Pool & Spa Professionals [APSP] will offer three in-depth educational compo-

nents of the APSP Career Institute, adding another important element to the Expo's stellar line-up of educational offerings.

"Leaders of the APSP Builders Council and Service Council have

created powerful programs to challenge the current ways of thinking and learn the key concepts and methods that will highlight their expertise," said Lindsay Roberts, Director of the Expo.

"The three programs provide attendees with the knowledge, skills and abilities to set them apart from their competition."

The APSP Builders Institute, presented by the APSP Builders Council, is an intense two-day program of interactive workshops designed to be a transformational learning experience that will make attendees a better builder and more effective business person.

Classes on Sunday, November 4, include, "Applied Hydraulics

for Building Professionals," "Vanishing Edge & Perimeter Overflow Pools: Design Theory, Engineering & Construction Best Practices," "Vanishing Edge & Perimeter Overflow Pools: Applied Knowledge," and "Dynamic Fountains for Small Spaces."

Monday, November 5, two half-day workshops include, "Social Media and the Internet Have Created a Major Shift in Marketing Strategies: Find Out What IT All Means and How to Capture It!" and "Know Your Numbers - Estimate Accurate Job Costs to Always Make a Profit!"

Presented by APSP Service Council, the APSP Technical Service Institute is a highly interactive two-day workshop to increase technical expertise and provide the knowledge and skills to effectively lead a service business.

Classes on Sunday, November 4, include, "Energy Efficiency Strategies Customers Expect," "Calculated Hydraulics vs. Actual Performance: What You Need to Know," "Research Results: What Consumers Want From Service Companies," and "Powerful People: Recruiting and Training Top Talent for Your Business."

Monday, November 5, classes include, "Stop Thinking Like a Manager: How to Lead Your Business," "Preparing for the 3 'S's': How to Make Your Business Sound for Succession, Sale & Sustainability," "Plaster Problems: Prevention and Solutions," and "How to Protect Yourself from the Pool Popping and Floating Liner Epidemic."

The APSP Hot Tub Technician Certification covers the essentials of portable hot tub service and equipment repair. Held Sunday, November 4, and Monday, November 5, the course uses the APSP Hot Tub Technician Manual to guide students through fundamental hot tub design and manufacturing models and then moves on to the basics of troubleshooting and repair.

Professionals who want to earn the highest level of professional certification in the industry should complete the APSP Certified Building Professional Prep Course or the APSP Certified Service Professional Prep Course on Saturday, November 3, and then complete the exam on Tuesday, November 6.

"These programs were designed to build core skills and share best practices and innovations," said Bill Weber, President and CEO of APSP, the show's official sponsor. "Registrants will receive the most relevant and useful educational tools to enrich their professional development and success."

The 2012 Int'l Pool | Spa | Patio Expo will be held November 6-8, at the Morial Convention Center in New Orleans, Louisiana USA.

## Registration Packages

The APSP Career Institute packages are ticketed events and seating is limited, so early registration is encouraged to ensure access to the program.

All three programs include a Super Pass [seminars on Tuesday-Thursday], the Expo on Tuesday-Thursday, the Welcome Party and Saber Grills BBQ & Jazz Fest [must register to attend]. Advance

*Continued on page 15*

## What might be heard at Mount Rushmore about Salt Water Pools...

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## An Eye on Education

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Class Here

By Steve Donohoe

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

"Grounding is when you tell your kids they cannot leave the house and bonding is when you go with them." -- Bob Nichols, full of wisdom, IPSSA member and mentor.

When we are in Chapter 14 (Facility Safety) of the Pool & Spa Operator Handbook during our CPO<sup>®</sup> class we discuss the difference between grounding and bonding.

## APSP Career Institute

Continued from page 14

prices are \$650 for APSP members and \$750 for non-members.

The APSP Certified Prep Courses & Exam include admission to the course, the Expo on Tuesday-Thursday, the Welcome Party and Saber Grills BBQ & Jazz Fest [must register to attend]. Advance prices are \$495 for APSP members and non-members.

To register for these programs, attendees should visit [www.PoolSpaPatio.com/attendee](http://www.PoolSpaPatio.com/attendee), where program schedules and additional information is posted. Discounted registration rates are available through September 25, 2012. For more information, please call 972.536.6350 or 888.869.8522.

Additional show information can be found on Facebook at [www.facebook.com/PoolSpaPatioExpo](http://www.facebook.com/PoolSpaPatioExpo), LinkedIn at [www.linkedin.com/groups?gid=1963264](http://www.linkedin.com/groups?gid=1963264), Twitter at [www.twitter.com/PoolSpaPatio](http://www.twitter.com/PoolSpaPatio) and YouTube at [www.youtube.com/PoolSpaPatioExpo](http://www.youtube.com/PoolSpaPatioExpo). Twitter users can follow the show using #PoolSpaPatio or @PoolSpaPatio.

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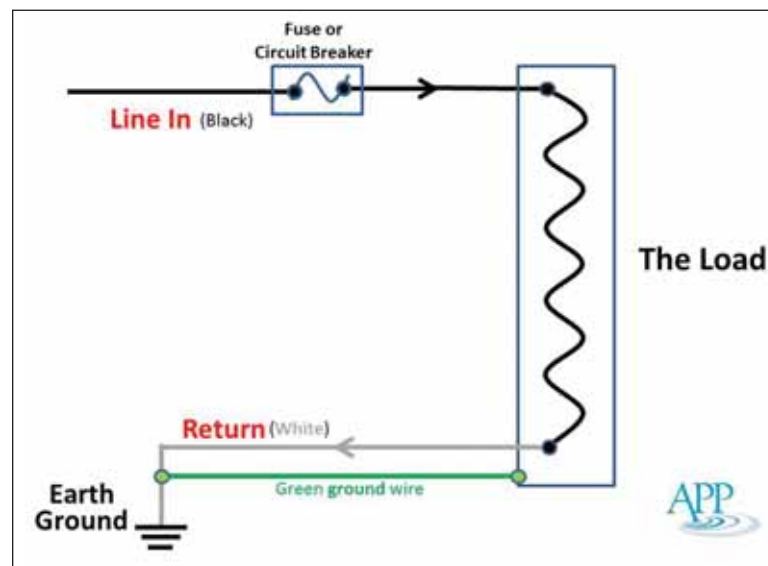
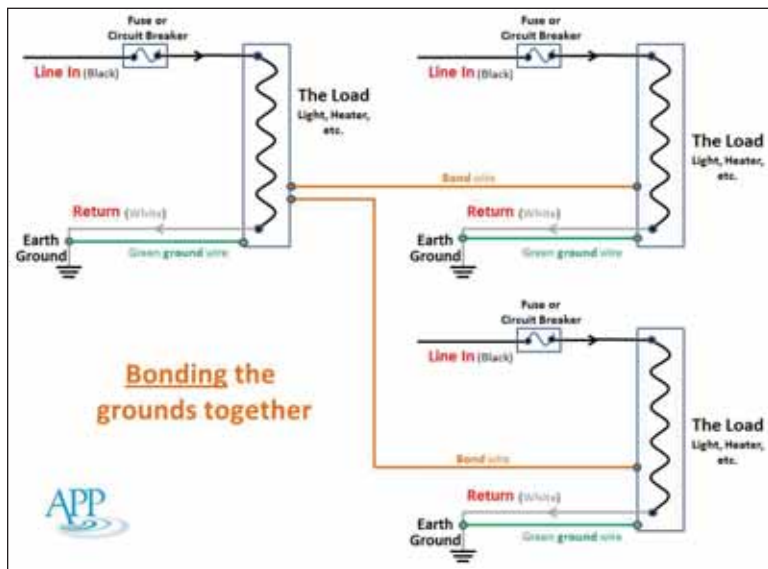
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# Grounding and Bonding... What's the difference?

Grounding is when a piece of electrical equipment's return is properly connected to ensure a low-resistance electrical current path to earth ground. Typically, a green ground wire is run from the electrical panel to each piece of equipment to ensure that in case of a fault there is another path for the electricity to return to the panel and to earth ground. The Simple Circuit schematic illustrates Line

In (power in), the Load and the Return path to ground. Since the earth is not a very good electrical conductor, each single point earth ground does not necessarily have the same electrical potential.

If you happen to bridge across this difference in potential you will feel an electrical shock. To ensure these ground points are at the same potential we "bond" them or connect them together to



put them on the same ground plane.

The swimming pool is concrete, re-bar, electrical wiring for lights and water. The very fact that it is in the ground makes it very grounded. However, this ground should be connected or bonded to the pool equipment to put everything on the same ground plane.

The Three Simple Circuits

schematic shows three different circuits with their grounds bonded together.

Scan the QR code to read this article on line with links to relevant information.

As Bob would say "See ya!"...Until then, take the journey: Education.



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# WaterWisdom is overflowing this October 2012 at the World Aquatic Health™ Conference

World Aquatic Health™ Conference organizers are pleased to announce several additions, including a pre-conference Genesis 3 educational event, to the already jam-packed schedule. Slated for this October 10-12, 2012 at the Norfolk Marriott Waterside Hotel in Norfolk, Virginia, people are encouraged to reserve hotel rooms early to ensure the discounted rate.

The conference schedule includes two keynote presentations, 45 seminars encompassing 5 critical topic areas, lunch roundtables, a scientific poster session and an all-new welcome reception.

For the third year, National Swimming Pool Foundation® (NSPF®) is pleased to partner

with the Aquatics Section of the American Physical Therapy Association for their Aquatic Summit. The World Aquatic Health Conference also welcomes back USA Swimming and the Aquatic Exercise Association for pre-and post conference events.

## What's New!

### Genesis 3 Design Group Partners to Present Pre-Conference Education Event

The World Aquatic Health Conference welcomes Genesis 3 as a conference event partner. The organization will offer Design 351: Dry-Deck Fountain Safety, an 8-hour class to be instructed by Michael Denman, Business Development, Crystal Fountains, Toronto, Ontario,

Canada. Scheduled for October 10 from 8 am to 5 pm, participants can earn 0.8 CEUs from Genesis 3. Municipal codes are evolving to accommodate the higher risk of public health and safety associated with dry-deck water features. Sanitation is difficult where bather loads burdened relatively small surge basins; this course presents solutions and includes science showing how ocular damage injuries can be reduced based on research developed by Crystal Fountains and a University of Virginia professor. Participants will also learn how to recognize toe entrapment problems, identify solutions, and discuss design options to improve overall dry-deck fountain safety. World Aquatic Health Conference registrants can attend for \$575; those not attending, registration is \$675. Breakfast and lunch is included. Sign up at the WAHC online.

### Welcome Reception Takes a Cruise on the Spirit of Norfolk

All conference registrants are invited at no extra charge to cruise on the lovely Elizabeth River from 6:30 pm to 9:00 pm, October 10th. The Spirit of Norfolk offers the perfect introduction to the city, as attendees mix, mingle and dine on a complete buffet dinner. Guests may attend for an additional fee.

### Live Streaming for RWI Track

In addition to recording all conference seminars for viewing after the conference, this year a live streaming of the Recreational Water Illness (RWI) Track is planned for Thursday, October 11. The track includes 5 seminars focusing on the Model Aquatic Health Code. For people who are unable to attend the conference but do not want to miss the WaterWisdom shared, access is available for \$99.00. More information on the live stream will be coming. Details about the RWI Track on Thursday may be found by downloading the conference registration package.

### Step Into Swim Congress: October 10, 1pm – 5pm.

#### By Invitation

National Swimming Pool Foundation will officially launch the Step Into Swim™ Campaign at this event where organizations and individuals who have committed to donate funds to the 10-year initiative will gather with representatives of leading "learn-to-swim" organizations. These featured organizations will make presentations describing how they will meet the demand to teach 1 million more swimmers over the next decade. Congress presenters will show invitees, how, together with their help, we can create industry growth AND reduce

drowning, chronic illness, and healthcare inflation. For further information on how to receive an invitation to attend the inaugural Step Into Swim Congress, people can visit [www.StepIntoSwim.org](http://www.StepIntoSwim.org) or call 719-540-9119.

### International Swimming Hall of Fame (ISHOF) Art Exhibit

ISHOF has graciously offered to loan an art exhibition from their private collection. The show focuses on swimming during the Victorian era, when the English made swimming a sport and an acceptable pastime. The exhibit will also present the people who spent their lives on the shores of rivers and lakes, and in the waters of tropical Africa, the Americas, Polynesia and Asia. There, parents taught their children to swim at the earliest age, girls as well as boys, as their avocations, recreations and safety required it. This special exhibit will be open for viewing adjacent to the World Aquatic Health Conference Registration Desk on October 11, from 8 am to 5 pm and October 12 from 8am to 3pm.

### Silent Auction - Original painting

#### Artist, George Catlin, 1833

The most detailed descriptions of the swimming skills and styles of Native American swimmers, which were no doubt universally

*Continued on page 18*

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# National Swimming Pool Foundation® awards \$17,000 in scholarships and fellowships to nine students

Nine university students have been awarded a total of \$17,000 in Scholarships and Fellowships by the National Swimming Pool Foundation® (NSPF®) Board of Directors for the year 2012-2013. The board has funded these two award programs annually, now entering their ninth year. As the economy continues to be soft, and educational funding programs continue to be reduced, the NSPF board is pleased to help empower these nine students in their professional development.

National Swimming Pool Foundation's Certified Pool/Spa Operator® (CPO®) certification graduates and their family members are recognized with the

Scholarship Program to help them pursue their college dreams. Providing fellowship assistance to young researchers also helps young scholars as they chart their careers. "There are few things we do any given day that will have an impact for decades. Giving to students to help them on their way is one such thing," reinforces Bill Kent, NSPF Scholarship Review Committee Chair.

This year's scholarship applicants were asked to write an essay that discusses how to prevent pool water contamination, and methods to clean up after a contamination incident occurs. The Scholarship Committee approved \$9,000 in scholarships to seven students

who are pursuing higher education around the U.S., in a variety of subject areas.

Laura Glass — Bethel College, received an NSPF Board of Directors Scholarship for \$2,000; Joseph Franceschini — University

of Las Vegas, was awarded an NSPF Board of Directors Scholarship for \$2,000; James Chafins — Kentucky Christian University, received the P. Cory Willis Scholarship for \$1,000; Brenda Broderick — Barry

University, was recipient of the Phillip J. Sperber Scholarship for \$1,000; Alyssa Kelly — Ohio State University, was recipient of the D. Joseph Hunsaker Scholarship for \$1,000; Jennifer Mielke

*Continued on page 20*

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Also if you do not have Sue's email it is membership@ipssa.com Please make sure you mark it as a safe email to receive from, to be sure you do receive these notifications.

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## World Aquatic Health Conference

*Continued from page 16*

known, come to us from the art and writings of George Catlin, a lawyer turned artist who took five trips into Indian territory between 1830 and 1836, visiting fifty tribes. In this painting, called A Village of the Hidatsa Tribe at Knife River, Catlin depicts what he observed in this and other villages, that swimming was a daily ritual for the Indians from their earliest days as young children and that they used a version of the modern Crawl Stroke. In his journal, Catlin tells the interesting story of this painting. A silent auction for this painting donated by ISHOF will be held at the World Aquatic Health Conference with opening bid of \$250.00 for this framed piece of historical art (shown here). The painting will be on display near the conference registration desk on October 11 and October 12. Proceeds will be invested by NSPF into aquatic health benefit research.

For the ninth consecutive year, the World Aquatic Health™ Conference will host global recreational water leaders who will reflect upon the latest WaterWisdom and project a wise path forward. Attendees will gather to learn from the latest research and practical science. The conference attracts over 400 of the most influential academic, industry, and government experts who are committed to making our world healthier through aquatics. In this intimate environment, leaders come together to understand emerging issues, exchange ideas, and formulate future plans. A cross section of industry segments attend, including leaders from academia, associations, building, consulting, retail, aquatic facilities, service, public health/government, health and medical, and manufacturers. The conference promises a wealth of wisdom, diversity of thinking and a breadth of knowledge with 27 new speakers, all with an emphasis on useful application. Several leadership meetings will also be held during the week.

Details on all seminars and presenters are found at [www.nspf.org](http://www.nspf.org) by clicking on 2012 World Aquatic Health Conference. Included on this page are links to a complete information package, secure online registration and hotel reservations. Deadline to take advantage of a \$70.00 regular registration savings is July 31. Full-time college students (12+ credit hours) may register for only \$100 by providing proof of enrollment at an accredited college or university. For additional information call 719-540-9119.



# Zodiac upgrades Polaris 3900 and adds TailSweep Pro accessory

Zodiac Pool Systems, Inc. continues its commitment to continual product improvement with the introduction of the TailSweep Pro™ and additional enhancements to its Polaris® pressure pool cleaner, the Polaris 3900 Sport. A global team of Zodiac engineers captured data from pool professionals and consumers in the field as well as within controlled testing environments to determine key improvement areas wanted by customers.

The result is a new and improved Polaris 3900 Sport model that includes both mechanical and aesthetic improvements to deliver premium performance for a sustained period, providing improved durability and a trouble-free pool cleaning experience for homeowners.

The TailSweep Pro is a simple retrofit accessory that improves sweeping by delivering 50 percent more flow through its jet pump propulsion. It also prevents certain spray issues such as the pressure-side pool cleaner's sweep hose from spraying water out of the pool and splashing windows, walkways and landscaping. The accessory retails for \$29.95 (MSRP). Features include:

- Simple snap-on technology – allows it to be added directly, in less than a minute, onto the end of the sweep hose; no tools required for installation
- High efficiency – maximizes water propulsion to blow debris out of corners and enhance sweeping action
- Broad application – it works on any Polaris 3-wheeled pressure-

side pool cleaner, including Polaris 380, 360, 280 and 180 cleaners, in addition to coming standard on the new 3900 Sport model.

In addition to the spray issues

solved by the TailSweep Pro, customers identified several other common areas for improvement that occur with all brands of pressure cleaners. Zodiac proactively

addressed these challenges by incorporating several other enhancements in the Polaris 3900 Sport, including:

- All-wheel drive Posi-Drive

system – minimizes hang-ups and delivers more torque than other cleaners in its class, resulting in superior performance

*Continued on page 21*

## New method of pool chemical treatment

*Continued from page 8*

7.5. Accordingly, recreational water is maintained near this range. We recommend the pH range of 7.5 to 7.8. It is important not to believe, that simply because the pH is 7.5, the water is balanced. If the CH is too low, any plaster or equipment in contact with that water will be corroded. If the TA is too high, scale forms on the pool walls, the equipment and the plumbing. Large deviations from the ideal reduce the effectiveness of chlorine. Thus it is very important to maintain an ideal pH in balanced water.

**Total Alkalinity:** Total Alkalinity acts as a pH buffer, resisting pH changes in either direction. However, TA resists downward changes better. High levels of TA make it difficult to change pH when adding acid or base. However, high TA requires a low pH for balanced water. Conversely, relatively little acid is needed to change the pH when the TA is low. The lower the TA level, the higher the pH must be for balanced water. Clearly, pH and alkalinity are related.

The key for obtaining balanced water without pH drift, is maintaining optimal TA level. If the pH rises over time, above 8.0, the TA has to be decreased. If the pH

drops over time, say, below 7.2, the TA level is too low. However, if the pool has a lot of aeration (waterfalls, fountains or anything that causes turbulence), then the ideal pH and TA will be different than for pools with no aeration. By fine tuning TA, you can balance the pH accurately, and adjustment only rarely will be necessary.

**Proper TA:** Obtaining and maintaining the correct TA level is dependent upon the existing CH (calcium hardness). If CH is approximately 200 ppm, TA will have to be 80 ppm for balanced water with an ideal pH of 7.6. If CH is 300 ppm, TA should be about 70 ppm with a pH of 7.6.

### Another Way of Lowering TA and Raising pH:

Use muriatic acid to decrease TA, aeration to raise pH.

1. Add enough acid to lower pH to 7.0-7.2
2. Aerate until pH is 7.6 (may take 6-12 hours depending on pool gallons and starting pH and TA)
3. Test TA (Total Alkalinity)
4. Repeat 1 & 2 until desired TA (60-90 ppm) and pH (7.5) are reached.

### Chlorine Exposure

Understand that in the presence of 30 ppm CYA, 97% of the chlorine is bound to the CYA. If

there is 6.0 ppm of free chlorine in the water, this means that 0.18 ppm (3% of 6.0) is not bound to CYA. This is equivalent to about 0.2 ppm free chlorine with no CYA. Here, there is sufficient chlorine held in reserve such that it is not depleted by high organic contamination, such as urine and sweat. At least 16 ppm free chlorine (in the absence of CYA) was required for eye irritation based on eye irritation experiments.

### Commercial or Public Pools

The Honest Pool Care 1-2-3 method was designed for residential swimming pools, not commercial or public pools. The latter two are subject to all local, state and federal codes, regulations and guidelines.

### Resources

For more detailed information on CYA please see "Cyanuric Acid: It Controls Your Pool" by Robert W. Lowry.

For more information on aeration for raising pH, please see "Using Air and Acid to Get Perfect pH and Alkalinity Quickly" by Robert W. Lowry.

There is also a new website that is built around this method: [www.honestpoolchemistry.com](http://www.honestpoolchemistry.com).

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## NSPF scholarships and fellowships

*Continued from page 17*

— Saginaw Valley State University was awarded the William N. Rowley Scholarship for \$1,000; and Taylor Strout — Armstrong Atlantic State University was awarded the D.J. Wright Scholarship for \$1,000.

The Fellowship program was established to encourage and support graduate students and post-doctoral fellows who are performing risk reduction or health benefit research related to aquatic activities and/or venues such as swimming pools, spas/hot tubs, therapy pools, and waterparks. The NSPF® Fellowship Program awarded \$8,000 to two students.

Jodi Jensen, M.A., Public Administration, who is pursuing her Doctorate of Philosophy in Educational Management, Hampton University, Hampton, Va., received a fellowship award of \$4,000. Ms. Jensen is a second-time recipient of the fellowship award. She has over 20 years in

the aquatics field and has a lifetime love of the water. Ms. Jensen has worked in the public sector in parks and recreation before entering full time into academia. In addition to attaining NSPF Instructor status, she has volunteered on the National Red Cross Advisory Committee for revision of the Lifeguard Training program; she also served as member of the Hygiene Technical Committee for the Center for Disease Control and Prevention Model Aquatic Health Code. Her interests include examining attitudes and beliefs towards aquatics by African Americans, particularly young adults. Her experimental investigation would address the huge disparity between African Americans versus Caucasians who swim, and the impact on unintentional drowning rates.

Laura Suppes, who is pursuing a Doctorate degree in Environmental Health Sciences at the University of Arizona Mel and Enid Zuckerman College of Public Health, was awarded a \$4,000 fellowship. Ms. Suppes is a Certified Pool/Spa Operator® certification program graduate, Registered Environmental Health Specialist, and a Master of Public Health. Ms. Suppes is currently conducting research funded by the National Swimming Pool Foundation under the direction of Dr. Kelly Reynolds that aims to develop standardized criteria for studies that explore health effects associated with exposure to aquatic environments. In addition, for part of her dissertation, she will study the correlations among microbial and cyanuric acid concentrates at various pool depths and Acute Gastrointestinal Illness reports by pool users.

Direct family members of individuals who have earned a Certified Pool/Spa Operator® certification may apply for the 2013-2014 year scholarships prior to June 1, 2013. The 2013 scholarship essays will ask candidates to write, from their perspective, what could be done in America to get more people to learn to swim. Essays that support the position by research and inclusion of scientific references will be viewed favorably. Information on how to apply for scholarships and fellowships is available at [www.nspf.org](http://www.nspf.org). Fellowship applicants should be performing aquatic research and can learn how to apply on the NSPF fellowships page.

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\*\* 1% CASH BACK is one percent of the loan proceeds issued to the borrower, net of any fees, and will be paid directly into the borrower's account following the successful receipt of borrower's first payment on a new Lending Club loan referred online by Pool Corp. Borrower must apply directly through the link [www.swimmingpool.com/lending-club](http://www.swimmingpool.com/lending-club), and have cookies activated on their browser in order for this offer to be tracked and valid.

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## The 2012 recipients of the Florida Swimming Pool Association Merit Scholarship have been announced

To qualify, applicants must be dependents of owners or employees of FSPA member companies. Transcripts, letters of recommendation, SAT/ACT scores and a research paper are required with

each application.

For the 2012-2013 academic year \$19,850 has been awarded to 23 students ranging from \$500 to \$1,400 each. The scholarships are given out based on academic accomplishment,

extra curricular activities, contributions to the community and a research paper on a pool industry related topic. The recipients are Melissa Adams, Lakeland; Thomas Adams, Lakeland; Nadia Baccus, Largo; Katie Bludsworth, Orlando; Peter Crayton, Tampa; Dakota Egglefield, Nokomis; Allisun Griffiths, Longwood; Haley Hahmann, Tampa; Hillary Hahmann, Tampa; Brandon Hensley, Mel-

bourne; Lauren Hoff, Loxahatchee; Chelsey Hoffner, Sarasota; Marcus Howard, Clearwater; Kimberly Kelly, Loxahatchee; Tanya Lueck, Melbourne; Ashley Malagian, Orlando; Erick Manley, Chuluota; Kaitlyn Mannis, Lecanto; Jessica Piercy, Sanford; Robert Pruette, Fleming Island; Dane Quintal, Neptune Beach; Adam Roth, Orlando; and Kiana Schilling, Cooper City.

The Florida Swimming Pool Association is a trade association for the pool and spa industry in Florida. There are approximately 550 member businesses in 16 Chapters across the state. Members are required to abide by a code of ethics and to be properly licensed and insured. FSPA provides the industry with access to continuing education courses, information on current trends and issues, an arbitration program and government relations representation. FSPA is governed by a Board of Directors.

### Zodiac upgrades Polaris 3900

*Continued from page 19*

- Best-in-class speed and maneuverability
- A 2.5" vacuum inlet – largest in the category – driven by a powerful, triple-jet, Venturi suction design, the outlet captures large debris and prevents clogging
- Wide Trax tires – increase surface contact, provide optimal traction and aid climbing and maneuverability
- Large capacity SuperBag with non-binding zipper – makes cleaning easy and minimizes frequency of cleaning
- 8-Point mechanical upgrade – providing strength, durability and a hassle-free user experience – including gear box upgrade for extended lifespan

The improved Polaris 3900

Sport retails for \$899, with a \$200 in-season rebate, valid through Sept. 3, 2012. For those owners who have an older version of the 3900 Sport model, a tune-up kit is now available (part # R0543200) for \$199.00 (MSRP) to improve the ruggedness and durability.

Pool professionals can learn more about the Polaris 3900 Sport and TailSweepPro by visiting the new Polaris website at [www.polarispool.com](http://www.polarispool.com). With available videos, brochures, manuals, and comparison charts, the Polaris website is a great place to walk customers through a product overview or to serve as an additional source of information for customers seeking more research.

### 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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# Pentair offers incentive program for IPSSA

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

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

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

colored lights.

In order for IPSSA to receive payment each member must register individually on the Pentair-IPSSA Incentive Program Registration Form (shown below and available on the members-only page of [www.ipssa.com](http://www.ipssa.com)). This will allow Pentair to monitor and collect electronically from participating distributors purchase details, or direct from the member purchases for the rebate accumulation.

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

The Pentair Incentive Program dates reflect purchases made from March 1, 2011 through September 30, 2011 for Year One

and October 1, thru September 30, 2012 for Year Two.

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

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

Dick Nichols, IPSSA's Region 10 director, commented, "This partnership is a perfect match between the largest swimming pool service organization and the largest manufacturer of pool products. The funds generated will be used for IPSSA's continuing education and research programs."

# Hayward® launches new Max-Flo XL pump series, the latest addition to the proven Max-Flo line

*New medium head pumps feature advanced hydraulics and conveniences*

Hayward® Pool Products announces the Max-Flo XL medium head pump series for the residential pool market. Extending their existing Max-Flo line, the new pumps offer advanced hydraulics and the latest conveniences combined with incredible economy and performance.

According to Hayward, Max-Flo XL pumps are outstanding self-priming medium head pumps for both new construction and aftermarket applications. "The pumps' advanced hydraulics deliver performance and reliability

pool professionals need, while their convenience and exceptional value will make them a favorite with pool owners," according to Scott Petty, product manager for Hayward Pumps.

Product features include:

- Advanced hydraulics improve efficiency and priming
- Seamlessly retrofits with entire Max-Flo line
- All models include 1½ inch x 2 inch union connections
- Pressure testable to 50 PSI
- Self-priming suction lift up to 8 feet above water level.

## IPSSA National Rebate Program



Please complete the information below to enroll in the IPPSA National Rebate.  
Missing information will delay enrollment and/or payment.

### Dealer Information:

Dealer Name:	
Owners:	
Other Contacts & Titles:	
Email:	
Website:	
Business Phone Number(s):	
Cell Phone (name of contact):	
Fax Number:	
Mailing Address :	Residential <input type="checkbox"/> Yes <input type="checkbox"/> No
Shipping Address:	Residential <input type="checkbox"/> Yes <input type="checkbox"/> No
IPPSA Chapter Name	
City, State	
Chapter President	

Type of Pools:	Brand:
<input type="checkbox"/> Inground <input type="checkbox"/> Aboveground	<input type="checkbox"/> Pentair Pool Products <input type="checkbox"/> Sta-rite

Type of Business:
<input type="checkbox"/> Builder <input type="checkbox"/> Retailer <input type="checkbox"/> Service <input type="checkbox"/> Refinisher <input type="checkbox"/> Other _____

Pool Materials Used:	
What type of pool materials do you use: <input type="checkbox"/> Commercial <input type="checkbox"/> Gunite <input type="checkbox"/> Fiberglass <input type="checkbox"/> Vinyl Liner	
I purchase from the following Distributors:	Rebate Rules
Name: _____ Acct #: _____	<ul style="list-style-type: none"><li>• Pentair will reimburse IPSSA National one dollar (\$1.00) for each whole good that a member purchases throughout the year. The listing of qualifying whole goods are the same that are listed in Pentair's PIP program, but basically pumps, filters, heaters, heat pumps, cleaners, automation systems, Intellichlor and colored lights. The maximum total payout to IPSSA will be \$20,000 per year on an annualized basis for all its members participating. To enroll in this IPSSA National rebate and ensure the education fund receives credit for your purchases, please fax this enrollment to 866-741-4051/ATTENTION: IPSSA REBATE. Once we receive your form, you will be enrolled in the IPSSA National Rebate Program.</li><li>• If you have any questions regarding this rebate, please call the Marketing Team at 800-693-0171 or email to <a href="mailto:rewards@pentair.com">rewards@pentair.com</a></li><li>• Each member must register individually on the Pentair- IPSSA Incentive Rebate Registration Form. This will allow us to electronically collect and monitor member purchases for the rebate accumulation. If a member does not register, their purchases will not qualify and cannot be added later. Should the National rebate be in effect going forward, the participants will be rolled over into the next year.</li></ul>
Name: _____ Acct #: _____	
Name: _____ Acct #: _____	
Name: _____ Acct #: _____	

New Member Signature \_\_\_\_\_ Date \_\_\_\_\_

## West Nile virus threat

Continued from page 9

and spas are a major concern of the state's vector control agencies. Pool industry professionals are in an excellent position to provide information on shut-down pools. When a house has had its power turned off and its pool has been left without maintenance, it should be reported to the local vector control office as soon as possible. Local abatement officers can then go to the pool and release mosquito fish into the water. The fish feed on mosquito larva and remove the threat of West Nile Virus spreading.

SPEC members are asked to report any abandoned pools they find in their daily work. The MVCAC's web site has a listing of all California control district offices, their telephone numbers and email addresses for pool service technicians to use for reporting abandoned pools. The web site address for the local directory is: [www.mvcac.org/agencies.htm](http://www.mvcac.org/agencies.htm). You are urged to go on the Internet and contact the vector control office in your area so that alerts can be sent quickly when a problem pool is discovered.

Several agencies, such as the Sacramento-Yolo Counties Vector Control District, have resources which allow them to do helicopter fly-over photography operations to spot untreated home pools. But even these few better funded districts cannot afford to photograph large areas on a daily basis. As a result, SPEC members can provide considerable help in the present health risk emergency.



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# IPSSA CHAPTER LISTINGS

**For Association information:** call Amy Nijjar, (888) 360-9505 / • (714) 484-4749 • (888) 368-0432 FAX or (562) 684-0695 FAX

10842 Noel Street #107, Los Alamitos CA 90720, E-mail: info@ipssa.com

**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

**For insurance information:** call Arrow Insurance (800) 833-3433 / Fax (805) 955-9535

40 W. Cochran Street #112, Simi Valley CA 93065, E-mail: ray@arrowinsuranceservice.com

## 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., 7 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

lelandgroves@hotmail.com

### GOLD COUNTRY

First Mon., 6:00 p.m.

Lou La Bonte's, 13460 Lincoln Way, Auburn

Pres. Donald Rosenkrans (916) 300-0383

### MODESTO CENTRAL VALLEY:

Third Tues., 6 p.m.

Perkos Restaurant, Kiernand Road & 99, Salida

Pres. Mark Torrence (209) 384-7425

### SACRAMENTO CITY

Fourth Wed., 6:30 p.m.

Plaza Hofbrau, 2500 Watt Ave., Sacramento

Pres. Nathan Williams (916) 213-6889

### SOLANA

Third Tuesday, 6:00 p.m.

Ulati Community Center, 1100 Ulati Dr., Vacaville.

Pres. Brad Tyrrell (707) 628-3732

brad@aquaclearpoolsrcv.com

**TRACY:** 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., John's Incredible Pizza Co.

3709 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. Channing Long (805) 341-8027

eaglepondguy@earthlink.net

### 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 Manhattan, 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

Second Mon., 6:20 p.m.

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

### WHITTIER

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

### HUNTINGTON BEACH

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

North Gilbert Street, Anaheim

Pres. Jim Strother (714) 962-9710

## ORANGE COUNTY POOL PROFESSIONALS

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

Claim Jumper Banquet Room, 18050 Brookhurst St.,

Fountain Valley CA 92708

Pres. James Romanowski (714) 404-2550

poolperfection1@aol.com

### 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

rhfoutz@verizon.net

### TUSTIN/IRVINE

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

220 N. Santiago Street, Santa Ana

Pres. Rich Foley (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



# 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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