

# Santa Clara Valley IPSSA Newsletter



**Next General Membership Meeting**  
**Thursday, April 21, 2016**

santaclaraipssa@gmail .com

**Napredak Hall, 770 Montague Expway**  
**Dinner at 5:00pm, Meeting at 8:30pm**  
**Volume #25, Issue 6**

## **Board of Directors**

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Dave Allen SR – Secretary ..... (408) 249-9731

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## **IPSSA Contact Information**

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## **IPSSA Financial Offices**

Cramer and Associates  
clint@cramercpa.com  
Phones 916-863-3107 or 888-391-6012

## **PRESIDENT'S MESSAGE**

REMEMBER: Thursday night Nuts and Bolts  
Time: 5:00 to 8:30  
Catered food and drink, over 30 Venders, and field techs.

This is the best time to ask all of your questions, about products, parts and repairs.

This is also a fund raiser for CPSA (formerly SPEC) so there will be a silent auction....

I understand there will be a Variable speed pump and a TriVac 500 Pressure Cleaner. and a lot more.....

Bring your check book and save. Remember there will be TRY ME products at below supply house prices.

Dinner is catered,  
\$5.00 donation pr meal will be accepted and will be added to the fundraiser.

Bring a friend enjoy the night.

Thank You,

*Joe McVeigh*

## **Electric Shock In Pool, Father Dies**

A father is dead and his daughter is hospitalized in critical condition after suffering an electric shock in a Palm Springs pool on Easter Sunday, police said Monday.

At about 4 p.m. Sunday, Palm Springs police officers and firefighters were called to a home in the 2300 block of Yosemite Drive, in the Indian Canyons neighborhood. Upon arrival, emergency personnel found relatives performing CPR on a 43-year-old man and a 9-year-old girl, who authorities identified as the man's daughter.

A caller to 911 reported that people were "turning blue after jumping into the pool," according to police. Investigators believe the man jumped into the pool to try to save his daughter. Both suffered electric shocks, which, according to a preliminary investigation, may have been the result of faulty pool wiring, officials said.

Police Sgt. William Hutchinson said victims described a "tingling feeling" while in the pool and that faulty wires may have been connected to a light.

Hutchinson, however, cautioned that an investigation is ongoing and officials have not reached final conclusions as to what caused the water to become electrified.

The man was pronounced dead at Desert Regional Medical Center in Palm Springs on Sunday.

Another neighbor, Philip Cooper, said most of the houses in that block were built in 1963. He wasn't sure if the electrical system at the victims' home had been updated. He said that when he moved into his house it lacked ground fault interrupters, fast-acting circuit breakers that are now standard in homes.

Cooper said that on Sunday evening he spoke with an inspector, who was called out to look at the home's electrical system. Cooper said the inspector told him events such as this one happened just a handful of times a year nationwide. "It truly is random," said Cooper.

Police said five other people were in the pool at the time of the incident Sunday, but they were farther away from the faulty equipment so their injuries were not as severe.

Four people — a 45-year-old woman, 6-year-old boy, 6-year-old girl and 8-year-old girl — were treated at Desert Regional and released. A 10-year-old girl remains in stable condition at Loma Linda Medical Center.

## Acid Treatment In Pools

There are some differences between muriatic acid (HCl), dry acid (sodium bisulfate, NaHSO<sub>4</sub>), and sulfuric acid (H<sub>2</sub>SO<sub>4</sub>) in the treatment of swimming pool water. We will attempt to review and clarify these three types of acids.

When added to water, all three of these acids increase the amount of hydrogen ions (also known as hydronium ions) present in water. These hydrogen ions immediately react with alkaline components in pool water such as bicarbonate (alkalinity) ions and convert them into carbonic acid, thus reducing the alkalinity in the water and lowering the pH. Also, when added, these three acids add a byproduct to the water. With muriatic, it is the chloride ions (Cl), with dry acid and sulfuric acid, the byproduct is sulfate (SO<sub>4</sub>) ions.

Muriatic acid (also known as hydrochloric acid) is probably the most common and most used type of acid for lower pH and alkalinity in pool water, and performing acid washes. The strength that is purchased for pool water use is normally 31.45%, but sometimes is marketed at 20% and even 10% in supermarkets and hardware stores.

Dry acid (sodium bisulfate) has become more popular in recent years, probably because it is easier and safer to use. Its strength is usually about 93-94%. While sodium bisulfate may have a higher strength percentage, it still costs more to use than muriatic acid. For every gallon of muriatic acid, it requires about 10.5 lbs. of sodium bisulfate to do the same job.

Some service techs use sulfuric acid to lower pH and alkalinity and also for acid washes. There are some that claim that sulfuric acid removes copper stains more effectively than does muriatic acid. The typical strength for sulfuric acid purchased in one gallon containers is around 38%. While the percentage strength of sulfuric acid (38.5%) is higher than muriatic acid (31.5%), they

are nearly equal in pH and alkalinity reduction gallon for gallon. So the price per gallon between the two acids may be a deciding factor when considering which to use.

There is the possibility of purchasing a higher strength sulfuric acid in bulk containers which has the strength of 93% or higher. This high strength acid is about 3.5 times stronger than muriatic acid. However, we advise to NOT use 93% sulfuric acid due to it being very hazardous to use. It is extremely corrosive, more so than muriatic acid and sodium bisulfate.

Also, other potential problems to consider when using sulfuric acid (including sodium bisulfate) is that they add sulfates to the water. In time, the content of sulfate increases in the water, which then can combine with calcium ions and form a precipitate crystal. Calcium sulfate deposits can be particularly difficult to remove from pools. Regular acid washes do not have much of an effect on removing this deposit.

High sulfate contents in pool water can also be more corrosive to cement finishes as it builds up in high concentrations over time.

**The following are formulas on how much of the three acids to add for lowering alkalinity.**

For muriatic acid, it is Volume (of the water) divided by 125,000 then multiplied by the ppm desired reduction in alkalinity which then gives the amount of QUARTS to add.

For sodium bisulfate (dry acid), it is Volume divided by 47,000 then multiplied by the ppm desired reduction in alkalinity which then gives the POUNDS to add.

For 38.5% sulfuric acid, it is Volume divided by 128,000 then multiplied by the ppm desired reduction in alkalinity which then gives the QUARTS to add.



**MAY 2016**

**Celebrate National  
Water Safety Month!**

IPSSA SANTA CLARA CHAPTER'S 28TH ANNUAL



# Nuts 'n Bolts

## Thursday, April 21, 2016

5:00 p.m. – 8:30 p.m.

Meet all the major Pool & Spa Manufacturers, suppliers, builders, remodelers and many other specialists as they showcase their companies and products. Learn about new products to help you make more money!

Bring your  
check book for  
the auction

Dinner is  
Catered

# Food

# Prizes

### Directions from 101

Take 880 North  
Exit Montague Expressway North  
Left on Trimble Road  
Make a U-turn at the next light  
Turn right on Montague Expressway  
Turn right into parking lot right  
after the bridge

### Location

Napredak Hall  
770 Montague Expressway  
San Jose, CA 95112



|                            |                  |              |                                 |  |
|----------------------------|------------------|--------------|---------------------------------|--|
| American Leak Detection    | Bill Webb        | 408-729-5325 | ald114@garlic.com               | Leak Detection                             |
| Baby Barrier               | Ben Fiscalini    | 408-806-2223 | kpkicking@yahoo.com             | Removeable Pool Safety Fence               |
| Blake Sales                | Ron Eger         | 360-970-3233 | ron.eger@blakesales.net         | Manufacturers Rep                          |
| Blueray xl                 | Chris Galvan     | 714-497-8822 | chrisg@bluerayxl.com            | CEO  |
| Burkett's Pool Plastering  | Jason Steenburgh | 209-595-6016 | burkettjsjaason@gmail.com       | Pool Remodeling                            |
| ChemQuip Inc.              | Chris Sanders    | 510-887-7946 | csanders@chemquip.com           | Distributor                                |
| Elm Distribution           | John Kies        | 916-853-2600 | john@elmdistribution.com        | Solar Panel Distributor                    |
| Gull Industries            | Mike Kennedy     | 408-293-3523 | mike@gullsolar.com              | Solar Panel Manufacturer                   |
| Halosource--SeaKlear       | Jerry Jenkins    | 831-334-2830 | jjenkins@seaklear.com           | SeaKlear Chemicals                         |
| HASA, Inc.                 | Gabe Talese      | 650-243-1962 | gabetalese@hasapool.com         | Pool & Spa Chemical Manufacturer           |
| Hayward Industries, Inc.   | Jade Nicole      | 925-239-9748 | jinicol@haywardnet.com          | Pool Equipment Manufacturer                |
| Leisure Supply             | Matt Anderson    | 408-727-8100 | maanders@kellersupply.com       | Distributor                                |
| Life Saver Pool Fence      | Mark Hinkle      | 408-779-7922 | mark@garlic.com                 | Removeable Pool Safety Fence               |
| Natural Chemistry          | Pat Smith        | 916-899-0915 | psmith@naturalchemistry.com     | Chemical Manufacturer                      |
| Oreg                       | Travis Hetzner   | 951-760-3149 | travis@oreqcorp.com             | Pool Equipment Manufacturer                |
| Paramount Pool & Spa       | John Andersen    | 925-595-7516 | JAnderson@1paramount.com        | Pool Equipment Manufacturer                |
| Pentair Pool Products      | David Lagrimas   | 209-627-6356 | Dave.Lagrimas@pentair.com       | Pool Equipment Manufacturer                |
| Pool Covers, Inc.          | Cheryl MacLennan | 707-386-9106 | cmaclennan@poolcoversinc.com    | Swimming Pool Safety Covers                |
| Precision Leak Detection   | Kevin Brady      | 925-776-7588 | pldinc@comcast.net              | Leak Detection                             |
| Purity Pool Products       | Rich Gross       | 530-472-3298 | rich@puritypool.com             | Pool Equipment Manufacturer                |
| RayPak Inc.                | Rick Witt        | 916-715-3470 | rwitt@raypak.com                | Pool Heater Manufacturer                   |
| Sales Link, Inc.           | Jeff Moscoe      | 707-533-5136 | Jeff@saleslinkinc.com           | Manufacturers Rep                          |
| SCP Distributors           | Steve Strauss    | 408-327-4900 | Steve.Strauss@poolcorp.com      | Distributor                                |
| Scuba Pool Repair          | Drew Andersen    | 408-866-1945 | drew@scubapoolrepair.com        | Underwater Pool Repair                     |
| SunTrek Industries, Inc.   | Elliot Fisher    | 831-297-0280 | elliott@suntreksolar.com        | Solar Pool Heating, Electricity, Hot Water |
| Superior Pool Products     | Brian Rivera     | 650-257-8207 | brianrivera@sppdistributors.com | Distributor                                |
| Swimco                     | Bob Raymond      | 408-378-2607 | swimcobot@yahoo.com             | Motor Repair                               |
| Wissbaum & Associates, LLC | Kirk Wissbaum    | 503-804-9303 | Kirk_w@bcсреps.com              | Sales Rep / Manufacturers Rep              |
| W R Meadows                | Patrick Raney    | 916-806-8924 | praney@wrmeadows.com            | Deck-O-Seal Manufacturer                   |
| Zodiac Pool Systems, Inc.  | Nick Woodsen     | 925-357-7731 | Nick.Woodson@zodiac.com         | Pool Equipment Manufacturer                |



**Serious issue, PLEASE don't TEXT and DRIVE.**