



KOI CLUB OF SAN DIEGO NEWSLETTER©

July, 2018

Volume: 18 Issue 7

Po Box 22833

San Diego, CA 92192

www.koiclubofsandiego.org



July 8th 2018
Dave & Sydney Brick

1726 Ivy Road

Oceanside, CA 92054

Lunch @12:30 Meeting begins at 1:30

Pot Luck and Please bring your Chairs



**From Hwy 78 near Oceanside Exit on Jefferson St and head North
Left on Vista Way and then Right on Avocado Rd
First Left on Ivy Rd and then Second Left again on Ivy Rd
(don't go straight)
The destination is on your right: 1726 Ivy Rd., Oceanside 92054**

CALENDAR of EVENTS

Committee Meetings

Steering Committee

July 2, 2018

Time: 7:00 pm

Place: Sizzler @

I-15 and Aero Drive

Become more involved.

Attend a meeting !

**MEETINGS ARE OPEN TO ALL
ACTIVE MEMBERS.**

Steering Committee

August 1, 2018

Time: 7:00 pm

Place: Sizzler @

I-15 and Aero Drive

Become more involved.

Attend a meeting !

**MEETINGS ARE OPEN TO ALL
ACTIVE MEMBERS.**

Steering Committee

September 5, 2018

Time: 7:00 pm

Place: Sizzler @

I-15 and Aero Drive

Become more involved.

Attend a meeting !

**MEETINGS ARE OPEN TO ALL
ACTIVE MEMBERS.**

Welcome NEW

Members

Dorene Dias

Tom Wright

Welcome Back

Renewing Members

Vivian Blackstone

Keith & Tina Burgess

Tom & Lisa DeFloria

Jeremiah Myers

Bill and Jeanette Newell

Deborah Szekely

Jain Malkin & Gary Watson

General Meetings

July 8th ,2018

Dave & Sydney Brick

1726 Ivy Rd

Oceanside, CA 92054

Speaker: Paul Curtis

Subject: Koi Disease &
Treatments

Lunch & Social @12:30 pm

Meeting Starts @ 1:30 pm

This is a Pot Luck event, please
bring your chairs and shade.

Sunday August 12th, 2018

Dr. Bob Adler and Janice List

3720 Valley Vista Road

Bonita 91902

Speaker: TBD

Gathering time: 12:30

Meeting start time: 1:30 p



**Show Pin Contest Contact
Greg Ruth**

membership@koicsd.org

**NEW WEBSITE IS UP AND
RUNNING**

<http://www.koiclubofsandiego.org/>

Upcoming Events 2018

**The Show Pin Contest
will take place at the July
General meeting.**

See website for rules

[https://](https://www.koiclubofsandiego.org/)

www.koiclubofsandiego.org/

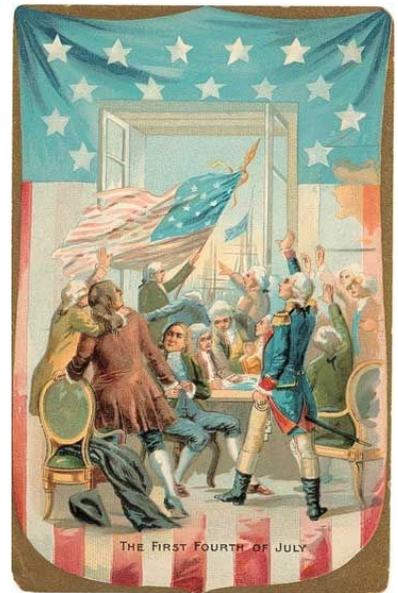
**Japanese Friendship
Garden**

is looking for more

Docents please see

Linda Pluth or

lpluth@cox.net



Find us on:

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The Original KCS D Koi Club
Facebook page is up and running. Just
enter Koi Club of San Diego
in the friend search at the top of your
Facebook page to friend it.

Inquiries concerning our

Treasurer's report

should be directed to:

treasurer@koicsd.org

OFFICERS

PHONE

EMAIL

PRESIDENT:		president@koicsd.org
First VP-PROGRAM:		program@koicsd.org
Second VP-VENUE: Matt Rhoades	(619)517-8270	venue@koicsd.org
SECRETARY: Phyllis Spoor	(858) 292-4857	secretary@koicsd.org
TREASURER: Dr. Jessica Lynch	(619) 3 70-8045	treasurer@koicsd.org

Koi Person of The Year 2018– Al & Tamsie Pierce

APPOINTED OFFICERS

SHOW CHAIRMAN 2019:		show@koicsd.org
Webmaster-: Jerry Myers	(619)405-8908	webmaster@koicsd.org
MEMBERSHIP: Greg Ruth	(858) 395-7882	membership@koicsd.org
PUBLICITY: Mike Poynor	(619) 295-5361	publicity@koicsd.org
NEWSLETTER: Jerry Myers	(619) 405-8908	newsletter@koicsd.org
AKCA REPRESENTATIVE: Scotty Yee	(714)943-3906	akcarep@koicsd.org
CLUB HISTORIAN: Dr. Galen Hansen	(619) 440-2035	historian@koicsd.org
PROPERTY MANAGER: Al Pierce	(619) 427-9008	property@koicsd.org
LIBRARIAN AND KOI HEALTH ADVISOR: Koi Jack Chapman	(619) 669-0490	health@koicsd.org
FINANCIAL REVIEW CHAIRMAN: VACANT		finance@koicsd.org
CORRESPONDENCE SECRETARY: Shirley Elswick	(619) 222-9825	correspondence@koicsd.org
JAPANESE FRIENDSHIP GARDEN LIAISON: Linda Pluth	(619) 200-4146	jfg@koicsd.org

MEMBERS AT LARGE

Norm Meck John Svelan Bill Thompson Tamsie Pierce

HELPING HANDS

WATER QUALITY: Jack Chapman	(619) 669-0490	waterquality@koicsd.org
KOI HEALTH ADVISOR: Jack Chapman	(619) 669-0490	health@koicsd.org
PROGRAM SUGGESTIONS: :		program@koicsd.org
TO HOST A MEETING: Matt Rhoades	(619)517-8270	venue@koicsd.org
TO SUBMIT AN ARTICLE: Linda Pluth	(619) 200-4146	input@koicsd.org



The President's Corner

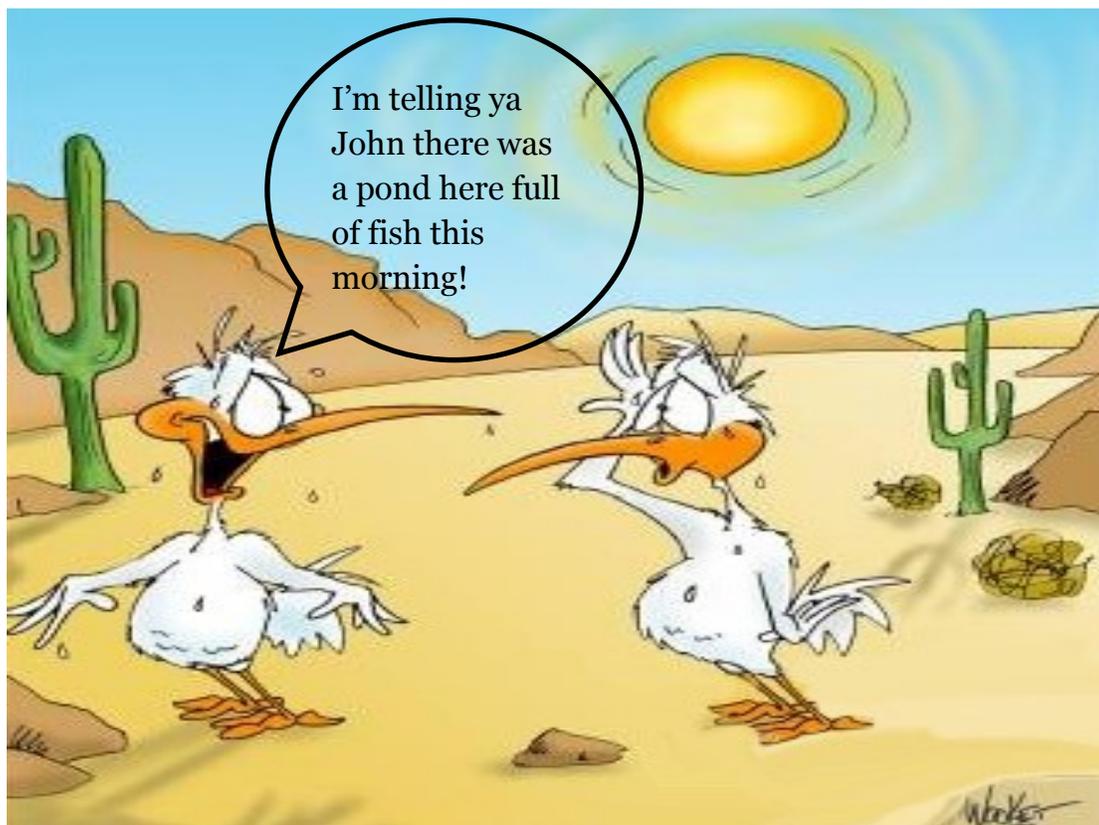
July 2018

Scotty Yee

It's Getting Hot Hot Hot.....

If you made it to last month's meeting in Poway, I hope you had a good time. Thank you to the members who continue to support the monthly meeting with the food they supply to the Pot Luck. Thank you to the Ruths, they are gracious hosts. I still can't believe Greg has grown some of his large trees from Acorns. I also Luv his tree house and "yes" his Zip Line for his Grandkids, Very Cool. His pond is top notch and his koi are looking great. Congrats to Gerald Ellison on his progress on becoming a Certified AKJA Judge. He gave a presentation on what it takes to be a Koi Judge and some insight on what the judges look for while Judging a show. We had a special Guest this past month, Shawn McHenry of Mystic Koi. We chose Shawn to Judge our Growout contest, his shop supplied the koi for the contest. Our members did a great job Growing their Koi. We also had a great number of koi returning to be judged. Congrats to all participants, especially our Grand Champion "Team Stewart" (Kathy Stewart). Also receiving awards were the Team of Vince and Donna Hernandez as well as Dr. Bob Adler. We have new officers for 2018/2019. Congrats and a Thank You to Matt Rhoades-VP Venue, Phyllis Spoor-Secretary and Dr. Jessica Lynch-Treasurer. We are still looking for a President and a VP of Program, "you can do it".

Have a Great Summer
Scotty Yee (ex-President)
Member
Koi Club of San Diego





Notes from the Board

June 2018

Phyllis Spoor

Fun Filled Koiing



MONTHLY MEETINGS: The August meeting will be at Dr. Bob Adler and Janice List's in Bonita. The June Grow Out Contest will be judged by Shawn McHenry. Gerald will speak on/take questions on becoming an AKJA judge. We are still looking for a meeting place for the July 8th meeting. Please contact Linda.

MEMBERSHIP: Greg Ruth reported 116 active members. Greg proposed raising dues to \$36 and changing the membership to January 1st thru December 31st. The dues would be pro-rated for people who join mid-year. A motion was made and passed to make this happen. Greg will work with Gerald to get the website programming changed to reflect this.

MEETING/HOSTING OPPORTUNITIES: If you would like to host a meeting please contact Matt Rhoades: venue@koicsd.org. Matt needs venues for September-January and going forward.

SPEAKING OPPORTUNITIES: Suggestions for speakers or topics, please contact one of the officers. There is a lot to learn about koi keeping and we need to hear what you would like to learn about and/or who you would like to speak/present or can provide the expertise that you need to make your koi experience better! Let us know what you want!! Looking for speakers for September 2018 going forward. We are looking for a new VP of Program.

TREASURER'S REPORT: Dr. Bob presented the Club's treasurer's report. Overall the Club's year-to-date funds are in good shape. Please welcome Dr. Jessica Lynch as the new Treasurer taking over for Dr. Bob.

JFG REPORT BY OUR GARDEN LIAISON-Linda Pluth:- The koi are being fed twice a day now due to warmer water. Linda will let the Garden know that they will have to get their own pond docents for Free Tuesdays due to a lack of club volunteers.

KOI SHOW 2019 PLANNING- Looking for a Show Chairman.

A new intern show chairman has to be appointed to follow in Bob's footsteps and be ready to take over the reins of the 2019 show. Greg will continue as Vendor Chair and T-shirt guy, Jack might continue as Entrant/Benching Chair and Water Quality. We still need to fill key spots. If interested, please contact an officer.

SOCIAL MEDIA-FACEBOOK-TWITTER-YOUTUBE-INSTAGRAM: The Original KCSD Koi Club Facebook page is up and running. Just enter Koi Club of San Diego in the friend search at the top of your Facebook page to friend it. Getting more hits on the page.

NEWSLETTER: Newsletter items need to be to Linda by the 10th.

AKCA: Scotty referred to Tamsie who reported on the AKCA June 23rd & 24th Wet Lab meeting in San Diego. The banquet is \$55 to attend; please sign up if interested. The wet lab is also open for a fee of \$25 for KCSD members. People should sign up online at the www.akca.org or contact Tamsie to get signed up. The Sunday JFG Garden tour has been moved to 3pm to give people a chance to get lunch. 42 people have registered for the banquet, 39 for the wet lab and 27 "auditors." Tamsie will advise Brenda Chandler, AKCA Coordinator, that Jack will work with AKCA KHA Terry Maxwell regarding the Wet Lab Requirements. Vagabond Koi will provide live fish for Wet Lab. AKCA is handling all of the arrangements including the hotel, food etc. Tamsie is collecting items for the Banquet raffle. Everything is falling into place to make this a very successful AKCA Business Meeting and Wet Lab.

WEBMASTER: Gerald tendered his resignation giving 6 months' notice to train a new person. If interested please contact Gerald Ellison.

PUBLICITY: Mike was in attendance and briefed the committee regarding the publicity he did for our successful auction. It was well covered in the Union Tribune and other papers which resulted in the auction being well attended.

KHA: Jack reported lots of Algae. Some sick fish and injuries. No parasites.

Cont next page

Notes from the Board June 2018 Phyllis Spoor cont

OFFICER NOMINATING COMMITTEE CHAIR: TAMSIE PIERCE: Tamsie is actively recruiting potential new officer candidates. We need a full slate of new officers.

Update: Phyllis will continue as Secretary

Matt Rhoades is on the slate for VP Venue

Dr. Jessica Lynch is on the slate for Treasurer

President and VP Program are open

At the KCSD June 6th Steering committee the following officers were voted on and unanimously approved:

Matt Rhoades, VP Venue

Dr. Jessica Lynch, Treasurer

Phyllis Spoor, Secretary

President and VP Program remain open at this time.

GROW OUT CONTEST: The Grow Out Contest fish will be judged by Shawn McHenry of Mystic Koi at the June 10th General meeting. The grow out champion will get a 15 lb box of KOI Food. The Beauty winner will get a \$100 certificate. Not planning another Grow Out Contest right now due to KHV case.

KHV: One of the dealers had a fish from Japan with KHV. He followed all protocols for checking for it and dealing with it.

AQUANEERING THANK YOU: As a thank you to Acquaneering for storing the tanks for 6 years they will get 2 booths at the 2019 Koi Show. This will be a one-time offer.

HARD TANK STORAGE: Aquaneering will no longer be able to store our hard tanks. John Svelan has talked to Steve of Pond and Garden and they have room and are willing to store our hard tanks in exchange for 2 booths at the show and some advertising in the show booklet as a major sponsor and in our monthly newsletter.

JULY STEERING COMMITTEE MEETING: Will be held Monday July 2nd at the Sizzler since our regular July scheduled meeting falls on Wednesday July 4th.



Screw the force
GET ME COFFEE

Just a quick note from the Editor

With Gerald's resignation as webmaster I have decided to take the webmaster position once again. He switched it from GoDaddy, which I had become pretty good at to Wild Apricot, which I know squat about. But for those of you who know me, know that I will figure it out sooner or later. In the mean time I ask you to bear with me and let me know if you find something that slips by or if you have any good ideas. An example is I changed some colors and hadn't realized it changed the color on all pages so now some pages have a white text with a white background. Such is life in the fast lane.

Someone recently asked me do you have time for all this? Let me tell you how it works. I get up, which is always a good thing, sometime between 4:30 & 6:00am. I let the dogs out front, make some coffee and then it's show time. I will spend between 20 minutes to 3 hours working on the website or newsletter depending on what I feel like doing. Sometimes I open the site and think NOPE it ain't gonna happen. This is my time, I spend it doing whatever I want to. Designing the web and newsletter relax me and when it gets me frustrated I shut it down, pop open my video game and create all sorts of carnage while I figure out how to do what I want to get done, works like a charm.

So please bear with me and let me know what you think.

Jerry

p.s. Have you logged in and updated your profile? If not please take the time to do so. It really helps us get the word out to all our club members. Just log in

at: www.koiclubofsandiego.org and sign in. If you don't have a password to sign in, just hit Forgot Password and you'll be set.



KHA KORNER

by

“KOI” Jack Chapman

Koi Nutrition – Lipids -(Fats & Oils)

SO, last month I started updating my 2014 koi nutritional series and touched on the number one component of koi food - protein/amino acids. As a reminder, protein provided in the diet is used or excreted from the fish as NH₃ or solid waste and never stored within the koi. So to stay with this

nutrition theme I figure it's time to move on to the second most important ingredient in our koi food or lipids, which when ingested and not used can and are stored within our koi in ways that can be harmful to the koi's overall health and wellness. You also need to keep water quality first in your mind and nutrition somewhat second when it comes to your overall responsibility for caring for your koi. Lipids are considered the most efficient source of **energy** for fish, period. Per gram, lipids provide a little over twice as much as the energy content of carbohydrates. Lipids (fats & oils) are an important metabolic component of cell membranes and maintenance, essential to certain metabolic processes (hormones to include reproduction), and play a key role in the assimilation of fat soluble vitamins (think A, D, E and K). Studies have shown that carp's daily dietary requirements are best supported with lipids from the group of triglycerides (fats and oils) and phospholipids that are polyunsaturated in nature and are called Linoleic, Linolenic and the Omega-3's (EPA & DHA) to support optimum growth and health. Yes, the spelling of the two fatty acids is correct. Note: Saturated fats, such as animal fats, have proven not very useful to koi and fish in general. “Fish oils (e.g., cod liver oil, salmon oil) appear to be the best sources of essential fatty acids, averaging around 25 percent linolenic fatty acids but only around 2.5 percent linoleic fatty acids. In contrast, vegetable oils (e.g., **soybean** oil and corn oil) are fairly low in linolenic fatty acids (about 4 percent) but high in linoleic fatty acids (52 percent).” Quote from: <http://www.fishchannel.com/freshwater-aquariums/fish-food/feeding-koi-and-goldfish.aspx>. Articles concerning this specific area for koi supports a 4 to 5 to an 8 to 9 percent crude fat content for koi feeds as does most koi food packaging listing for guarantee analysis (crude fat). Buying commercial brand koi foods that meet the above requirements will certainly meet your koi's daily dietary needs. **H O W E V E R**, *as food for thought*, I just can't help myself and I currently employ a couple other concepts from articles I've read in the past and practice with my summer daily diet (water temp above 72F) and the second is an augment to the daily diet every 3rd day. I know you're asking yourself - What kind of crap is he going to try and sell us now???LOL It's called **Protein Sparing** (remember last month's article). This quote comes from when I use to visit Koiphen, and from my printed copy, “Lipids (fats) are an important energy source in Koi diets. Many research studies emphasize the “protein-sparing” effect of lipid supplementation in carp diets. In order to improve the protein-utilization an optimal protein to lipid ratio is necessary. Good results may be obtained when the lipid content is increased slightly over typical inclusion percentages. A diet with higher energy (lipids) brings about lower nitrogen excretion, which is important for maintenance of **water quality**. Conversely low fat diets force the koi to use some of the protein for energy. Protein used for energy is excreted from the gill as ammonia. So to summarize: if lipids (fats) are available in the diet then they are used by the koi to support its energy needs. This spares the protein from energy maintenance allowing it to be used for growth of bones and muscle. Protein used for growth does not leave the body of the koi; hence lower nitrogenous wastes for the bio-filter to process...” (Posted by: Matt Sklar)

SO, how have I increased my koi's daily lipid intake? My second summer daily diet feeding includes edamame beans or soybeans for Linoleic and Omega-3's and TomiGai sinking pellets with spirulina, which has some of all the key lipids for koi. And, yes the red yams at my second daily feeding are a minor source of Omega-3's. I augment the daily diet every 3 days to include whole silkworm pupae or Hikari Silkworm Selects for Linolenic and Omega-3's.

YOU see there is a sound scientific reason for including silkworm pupae in your koi's diet. Oh, if you only knew – For the science nerd in us all: There are different breeds of silkworm and what they eat is very important to them and our koi. The larvae of PM and CSR2 breeds when fed on leaves from mulberry trees feed a specific organic based Bio-fertilizer registered higher lipid content 2 and 3 percent respectively. *How about this - they (carp/koi and silkworm) have the same lipid requirement for health and growth.* (e journal of Biological Sciences, ISSN 2076-9946) And, as a *plus* the nutritional value of silkworm pupae shows a total protein of 55.6% and a total lipid of 32.2% by dry weight. (J Nult Sci Vitaminoi Tokyo 2010;56 (6):446-8). They also are a good source of alpha-glucosidase inhibitors (starch blocker) – if you have type 2 diabetes.

BIG DISCLAIMER- You must be very careful NOT to overdo this as your water quality will suffer as well as your koi's health. What they eat gets metabolized, stored as fat, or eliminated as waste to the water column, and you could have some conformation issues as in a *fat* koi and a potential for fatty liver disease!! I will admit I'm happy with my growth and color of most of my koi using the above slightly boosted lipid plan.

Koi Club of San Diego Ponder Profile

Dave and Sydney Brick

Oceanside, California

Meet a high energy couple who have created a tropical paradise in the hills above Oceanside. Dave and Sydney are SoCal natives that have known each other since High School. When I suggested High School Sweethearts Dave scoffed at the idea and claimed he was too much of a Nerd more interested in flying. After high school and college they both pursued aviation careers, Dave as a pilot and Sydney as a Flight Attendant both for Continental Airlines. Fast forward a bit and now they are enjoying the good life surrounded by their children, 3 year old grandson and dog Rufus in an amazingly self-designed dream house and yard. Sydney has since retired as a Flight Attendant and now teaches pre-school while Dave pilots international flights for United Airlines. They live a super active lifestyle of traveling, snow skiing, hiking, competitive ballroom dancing and I might mention Dave had to cut the interview short because he was taking some visiting cousins surfing!

As they are just finishing a complete remodel of their home, Sydney pointed out that Dave absolutely designed every unique detail. While Sydney plays piano, Dave is also busy molding clay into awesome one-of-a-kind creations. Dave also designed all the outdoor landscaping that includes a 3,000 gallon pond with natural rock waterfall. The pond was built 13 years ago by local pond builder Matt McLeod of San Diego Ponds. The liner pond features an Aqua UV bead filter, William Lim Dragon pump, UV sterilizer and a waterfall that creates more than enough oxygen for the residents. They are strong supporters of Vagabond Koi Rescue and after meeting Jerry Myers at the last koi show, they joined the club and brought home a couple of beautiful additions.

Welcome to the Koi Club of San Diego and thank you so much for sharing your home and your Ponder Profile with us!
John Svelan Member at Large Koi Club of San Diego







Photographs by Bill Newell

A BIG thank you to both Ultra Balance Koi Food and Nijikawa for their continued support of the Koi Club of San Diego

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RE: THE PREMIUM KOI FOOD

KOI BREEDERS WORD
from Niigata, Japan

Marudo:
"Nijikawa was used for yonsai Chia koi and Karashi koi, "boom-boom" growth! Will use for core variety next year."

Koda:
"Nijikawa are used at Nisal and older ponds. "I think Nijikawa is Super Koi Food"

Sekiguchi:
Nijikawa was mixed at all ponds. Great Growth. Need more Research on how to handle. "I believe Nijikawa has Tremendous Potential!"

Isa:
Nijikawa was used with 50% ratio, but finished in two weeks. Result is inconclusive. But "I think that Nijikawa maybe the ONLY Good Koi Food Made Outside of Japan"

Hasegawa:
Nijikawa reminds me the great quality koi feed made in Japan 30 years ago! Only 15% used in Sansai pond, it completely changed the koi this year!

Marusaka: Nijikawa was used at all ponds with different mixing ratio. Great Growth and Great Conditions!

Ozumi Ikarashi:
Nijikawa was used at all ponds with different mixing ratio. Great Improvement on Conformation. Koi are Healthy and Active!

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Pictures from the JUNE General Meeting at the home of
Greg & Sharon Ruth



Photographs
by
Phyllis
Spoor

[For ALL of
the meeting
photos click
here](#)





A quick look at the AKCA Wet Lab/ Business convention



Many more photos at

<https://www.ps-s-sparkly-hat-photography.com/AKCA-2018-Wet-LabSeminar-SD/>

Below is a post by Pondman Jeff to Koi Keepers of North America Facebook



Koi KHV

This may be a controversial post to some, but that is not my intention. I just want to state some facts recently learned at the San Diego AKCA Seminar/Wetlab. We were lucky to have as a speaker, Dr Ling, the head of KHV research at OSU. Dr Ling gave a very informative talk on the latest research findings, and because quite a bit of it was way over my head, I chose to ask her some definitive questions after the seminar. Dr Ling currently has KHV survivors in the study, that are still alive after 12 years.

So, I asked these simple questions.

Q1. Is it possible for a survivor to infect a new fish even if the survivor has shown no signs of the disease?

A1. Yes, because the survivor may have been mildly stressed to a point that caused it to shed the disease, yet it was still able to survive because stresses were not great enough to cause a visible outbreak in that particular fish.

Q2. Is it possible for that newly infected fish to survive without showing any signs of the disease?

A2. Yes, as with the first fish, the second fish could survive if it was not stressed enough to cause a visible outbreak.

Q3. So this second fish, could it survive, but transfer the disease to a third fish?

A3. Yes, any survivors can transfer the disease without having shown any visible signs of the disease. It can go on like this until an individual fish is stressed enough to have an outbreak, and all fish are different. One fish may have a lower resistance or have a weaker immune system.

Q4. So, is this scenario possible. Fish One infects fish Two, then fish Two infects fish Three. Both fish One and Three survive, but fish Two dies?

A4. Yes, again, depends on each individual fish's immune system.

Q5. If we suspect that we have introduced an infected fish into our pond, yet we have not lost any fish, or have not seen any signs of the disease, how can we be sure that we are safe?

A5. A blood test must be performed by a qualified laboratory.

Q6. If we do find that we have fish with the disease, what do we do then?

A6. No fish should then ever leave that pond.

One other misconception about KHV that was discussed, IT CANNOT BE CURED WITH HEAT.

Many stressors can include temperature changes, bad water quality, other diseases that lower a fish's immune system, netting a fish, spawning, etc.

KHV has been found to remain in a body of water as much as 6 months after all aquatic life has been removed. It can remain in soil, plants, insects, other forms of aquatic life.

Before anyone gets excited and starts a ruckus I did speak to Jeff about posting this I decided to add this in our newsletter because a large number of our club members have either the wrong info or are just bewildered by KHV and what it can actually do.

What most of us know about KHV can be compared to this precise history of King Tutankhamun

<https://www.youtube.com/watch?v=FYbavuReVF4>

There is much misinformation out there.

KHV is a DNA-based virus. After discovery, it was identified as a strain of herpesvirus. Like other strains, KHV stays with the infected fish for the duration of their lives, making the recovered and exposed fish potential carriers of the virus. Koi fish infected with KHV may die within the first 24–48 hours of exposure. The virus is found in 33 countries.

**PIN CONTEST is neigh upon us once again!
Bring your entries to the meeting Sunday in Oceanside!
Greg Ruth is the Pin Head in Charge. (Get it PIN?)**

Vagabond Koi is headed to San Rafael this weekend to help an elementary school get their koi, turtle and goldfish pond straightened out.

Mary from KOI will be there as the contact and hopefully we can get this pond in shape and easier to maintain.

Ill let you all know how it went at the meeting Sunday

Vagabond Koi is happy to announce that the long awaited garage is almost done just need the door installed and VKR is good to go. Half of the 24x24 garage is for VKR to use as storage, wet work and repair shop. The intent is to build 4 new ponds each about 3 feet deep 8 wide and 12 long, plus one in front entry of yard about the same size. The front one will be for koi ready to find a new home and they will be rotated between 2 ponds as I want to maintain a GREAT water quality so you can see them. I have been doing this now for over 3 years and have been able to grow to the point where I have reliable equipment, I have a generator that can run all the ponds if need be, plus new pumps. The money for VKR comes from donations and the odd jobs I do. EVERYTHING goes into the rescue.

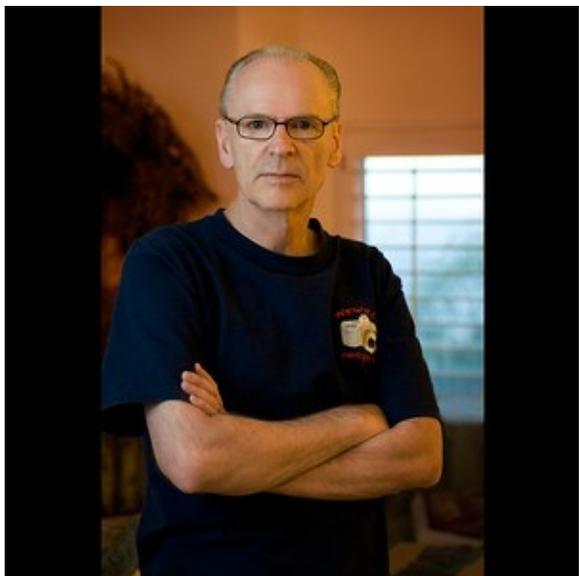
<https://cafishvet.com/2018/03/20/mycobacteria-in-fish/>

<https://cafishvet.com/tag/dr-jessie-sanders/>

<http://drjohnson.com>

http://www.koivet.com/a_koi_pond_nitrites.html

I have decided to link both the SmugMug accounts of Bill Newell & Phyllis Spoor to the newsletter and the website. Both of our club members take fantastic pictures of everything you can think of all over the world. For Bill's SmugMug click his picture. For Phyllis click her picture.



On behalf of the Koi Club of San Diego I want to thank both of these extraordinary photographers for their continued effort to capture the spirit of club members during our gatherings. From the Ponder Profiles, to monthly meetings and special events.

THANK YOU BOTH

Interesting video from Blue Ridge on spawning in the koi farm

Personally I find the kid with the camera a bit annoying, but he isn't from Blue Ridge

[Video on how Blue Ridge spawns such great long fins](#) (click it)

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Aquatic Warehouse
 (658) 467-9297



[Click the picture for their web site](#)

**San Diego Pond & Garden is
NOW OPEN at their new location.**

This is your one stop shop for all pond related items. Filters, pumps, lights, fittings and of course fish. They have way to many items for me to list them all so stop by and check out the new digs.

Club members get a 10% discount

This is also going to be the new home for our SHOW TANK storage.

A BIG THANK YOU to San Diego Pond and Garden

12257 Old Pomerado Rd, Poway 92064.