



# KOI CLUB OF SAN DIEGO NEWSLETTER©

April 2021

Volume: 21 Issue 4

Po Box 22833

San Diego, CA 92192

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



Social  
Distance



Wear  
Mask



**WE ARE LIVE AND IN PERSON**

**APRIL 11 2021**

**Lenore Wade**

1405 Comet Court

El Cajon, CA 92019

Contact Lenore Wade if you are planning to attend.

[lenorewade@yahoo.com](mailto:lenorewade@yahoo.com)



## Directions

I-8 East (1.3 miles east of CA-67)

Take exit 19 on to 2nd Street

Turn Right onto N. 2nd Street

.5 mile turn Left onto E. Main Street

500 ft. turn Right onto Melody Lane

.2 mile turn Left onto Comet Court

1405 Comet Court is in the cul-de-sac

[For Map click here](#)

## WE ARE BACK IN PERSON

Social Time —12:30 pm

Meeting Starts —1:30 pm

Bring your own lunch

Please Bring Your Chair

Covid protocols are to be observed

Mask and Social Distancing

## OFFICERS

<b>PRESIDENT:</b> Al Pierce	(619) 427-9008	president@koicsd.org
<b>First VP-PROGRAM:</b> Linda Pluth	(619) 200-4146	program@koicsd.org
<b>Second VP-VENUE:</b> Matt Rhoades	(619)517-8270	venue@koicsd.org
<b>SECRETARY:</b> Phyllis Spoor	(858) 292-4857	secretary@koicsd.org
<b>TREASURER:</b> Dr. Jessica Lynch	(619) 3 70-8045	treasurer@koicsd.org

## PHONE

## EMAIL

### Koi Person of The Year 2020 Scotty Yee

#### APPOINTED OFFICERS

<b>SHOW CHAIRMAN 2021:</b> No Show (covid)		show@koicsd.org
<b>Webmaster-:</b> Jerry Myers	(619)405-8908	webmaster@koicsd.org
<b>Co-Webmasters-:</b> Greg Ruth & John Svelan		webmaster@koicsd.org
<b>MEMBERSHIP:</b> Greg Ruth	(858) 395-7882	membership@koicsd.org
<b>PUBLICITY:</b> Vacant		publicity@koicsd.org
<b>NEWSLETTER:</b> Jerry Myers	(619) 405-8908	newsletter@koicsd.org
<b>AKCA REPRESENTATIVE:</b> Scotty Yee	(714)943-3906	akcarep@koicsd.org
<b>CLUB HISTORIAN:</b> Dr. Galen Hansen	(619) 440-2035	historian@koicsd.org
<b>PROPERTY MANAGER:</b> Al Pierce	(619) 427-9008	property@koicsd.org
<b>LIBRARIAN AND KOI HEALTH ADVISOR:</b> Koi Jack Chapman	(619) 669-0490	health@koicsd.org
<b>FINANCIAL REVIEW CHAIRMAN:</b> VACANT		finance@koicsd.org
<b>CORRESPONDENCE SECRETARY:</b> Shirley Elswick	(619) 222-9825	correspondence@koicsd.org
<b>JAPANESE FRIENDSHIP GARDEN LIAISON:</b> Linda Pluth	(619) 200-4146	jfg@koicsd.org

#### MEMBERS AT LARGE

John Svelan Tamsie Pierce

#### HELPING HANDS

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

# CALENDAR of EVENTS

## Committee Meetings

### Zoom KCSD Steering Committee Meeting

Scheduled Zoom meeting.

**Wednesday, April 7**

**7 PM**

Zoom

Topic: Steering Committee Meeting

Time: This is a recurring meeting  
Meet anytime

Join Zoom Meeting

[https://us02web.zoom.us/j/83469599073?](https://us02web.zoom.us/j/83469599073?pwd=cFNFOw1wWWpZMzErTUyYbU8oZGovQT09)

[pwd=cFNFOw1wWWpZMzErTUyYbU8oZGovQT09](https://us02web.zoom.us/j/83469599073?pwd=cFNFOw1wWWpZMzErTUyYbU8oZGovQT09)

Meeting ID: 834 6959 9073

Passcode: 408973

**Please remember that the Steering Committee Meetings are for any club member in good standing.**

### WELCOME RENEWING MEMBERS

Thom & Lynne Fuller

Rick & Jill Leach

Matt & Jill Rhoades

Victor & Linda Valadez

John Will & Tom Wilson



**SOCIAL DISTANCE  
WEAR A MASK**

## General Meetings

**APRIL 11 2021**

**Lenore Wade**

1405 Comet Court

El Cajon, CA 92019

Contact Lenore Wade if you  
are planning to attend.

[lenorewade@yahoo.com](mailto:lenorewade@yahoo.com)

KOI CLUB

OF

SAN DIEGO 33rd

ANNUAL KOI SHOW

PICTURES

BY

PHYLLIS SPOOR

aka SPARKLY HAT

[Click text](#)

KOI CLUB

OF

SAN DIEGO 33rd

ANNUAL KOI SHOW

PICTURES

BY

BILL NEWELL

[Click text](#)



NEW WEBSITE IS UP AND  
RUNNING

## Upcoming Events 2021



**General Meeting**

**APRIL 11 2021**

Due to the Corona Virus  
(COVID-19)

**Steering committee Meetings**  
are canceled until further  
notice.

If there is club business to  
contend with please notify the  
club president at

**president@koicsd.org**

***The Club has been holding  
Steering Committee  
Meetings on Zoom for more  
info contact Tamsie by  
email at tamsie@cox.net***



Find us on:

**facebook®**

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.

Inquiries concerning our  
Treasurer's report  
should be directed to:  
**treasurer@koicsd.org**



# The President's Corner

## April 2021

***“It doesn’t have to be the way it is...” Ursula LeGuin Science Fiction and Fantasy author in No Time to Spare - book of short essays published in 2017 as she was contemplating age 80+.***

She is referring, of course, primarily to a writer’s creation of a fiction world, using imagination to see something - a culture, a life, a new world - see it all differently.

While she talks about fairy tales, folklore and fiction, we can as well apply her consideration to what we have just experienced in 2020 and (so far) 2021. Flexibility, change, a chance to improve. I am reminded of when we each decided to keep the peace of koi. How we considered all possibilities of pond shape, size, needs, garden complementing the pond. We had some guidelines, the basic pond needs. We had visited ponds and koi collections as part of our monthly Koi Club general meetings, sorted out what pleased us most, what would fit best in our property, what fitted best of all in our budget and time constraints.

“It doesn’t have to be the way it is...” And just like that our pond, our fish collection, the peace we gain from sitting by the pond with our morning beverage and/or our evening beverage and just enjoying the company of our peaceful stress relieving koi came to be.

And now, with a real sight of the end of the constraints of the pandemic we, too, as a club can start to think about Koi Club of San Diego. I think it is safe to say we’ve been on a sort of autopilot since the show in March of 2020. No face to face meetings. No relief for the volunteer officers who have helped everything to run smoothly - newsletter, membership reminders, keeping the club financials in order, maintaining touch with our support system of koi and pond supply dealers.

We will be meeting in person on **April 11 at the home of Lenore Wade** who has patiently invited us to join her monthly until we are now finally released to a face to face gathering. Please bring your chairs and own drink and snack and **email Lenore ([lenorewade@yahoo.com](mailto:lenorewade@yahoo.com))** and let her know you will be attending. And come with thoughts on preparing for elections, finding hosts for upcoming meetings, and meeting topics you would like to see covered when you actually have the opportunity to ask the presenter questions in person. Lots of business to cover and we need your input.

These are also some of the guidelines the Water Garden Society has been using for their meetings since last summer. The “notify in advance of attendance” was instituted when gathering sizes were limited and it seemed more tactful to let people know in advance that they were #11 of 10, rather than getting the word at the door when they had just spent time and gas driving to the location.

Hope to see you there.

Al Pierce, President

Note: **We will have a drawing table at the April meeting. Matt Rhoades has also obtained some koi for the drawing.**

**Reoccurring meeting the first Wednesday of each month. So keep this info for each meeting.**

**Al Pierce is inviting you to a scheduled Zoom meeting.  
Wednesday, April 7th  
7 PM  
Zoom**

**Topic: Steering Committee Meeting  
Time: This is a recurring meeting Meet anytime**

**Join Zoom Meeting**

<https://us02web.zoom.us/j/83469599073?pwd=cFNFOw1wWWpZMzErTUYYybU8oZG0vQT09>

**Meeting ID: 834 6959 9073  
Passcode: 408973**



**Please remember that the Steering Committee Meetings are for any club member in good standing.**

Mask Required  
Social Distancing

**APRIL 11 2021**  
**Lenore Wade**  
1405 Comet Court  
El Cajon, CA 92019  
Contact Lenore Wade if you are planning to attend.  
[lenorewade@yahoo.com](mailto:lenorewade@yahoo.com)

Please bring your  
own lunch and  
chairs

# Notes from the Board

Kathy Stewart

3/3/21

Meeting called to order at 7:00 PM

Attendees: Al & Tamsie Pierce, Jessica Lynch, Phyllis Spoor, Lenore Wade, Matt Rhodes, Greg Ruth & Kathy Stewart.

First in person general meeting since the COVID lock down will be held at the home of Lenore Wade April 11, 2021 @ 1405 Comet Court, El Cajon 92019.

Jessica re: Treasury report: (Please contact Jessica for information.) A puzzling withdrawal in Jan, 2021 of ~ \$80 and Jessie wondered if anyone knew what it was. Tamsie tracked down that San Diego County was paid for 2020 Property Taxes.

Matt: if Koi Show goes for 2022 it would be ~ March 5 & 6, 2022...about 1 year from now. Down payment is ~ \$7,700.00

Sad news: Andrew's Koi International in Anaheim had lost its lease and is going out of business.

Linda Pluth: no JFG new info, although she helps edit the JFG newsletters.

Koi Jack: no KHA updates.

Elected officers- President, both Vice Presidents, Secretary and Treasurer are up for nominations and elections. Matt has volunteered to be Show Chair for 2022.

We will try to have a fish and equipment auction hopefully before October. Jerry Myers and Matt have a bunch of equipment and some people need to pare down their ponds. The auction will be taking place out in Poway on a Sunday, where the Stewarts' business is, on Stowe Dr., close to San Diego Pond and Garden which is on Old Pomerado Rd.

Tamsie talked to Laguna Pond; they miss our Koi Show as the income and contacts it brings to them, and they bring to the Show.

Greg: membership is ~ 95 families to date.

Meeting adjourned 8:00

## **Scheduled Zoom Meeting.**

**Wednesday,**

**April 7**

**7 PM**

**[Click here to go to website for meeting](#)**

## **Join Zoom Meeting**

**<https://us02web.zoom.us/j/83469599073?pwd=cFNFOW1wWWpZMzErTUyYbU8oZGovQT09>**

**Meeting ID: 834 6959 9073**  
**Passcode: 408973**



**KHA KORNER**  
by  
"KOI" Jack Chapman

Editor Note:

**I tried something different this time and converted KHA from Koi Jack into a PDF and then inserted it into the PDF of the newsletter .**

**Now one may say Jerry why did you do that?**

**I did it because Jack spent a lot of time formatting and setting up the KHA article just the way he wanted it and when I copy it over to the Newsletter it lost its "Jackness".**

**So I found a PDF kept it all Jack all the time. Besides I like to try new things So the next couple pages are the KHA Korner.**

**On another note, as a rescue I do tend to overstock the rescue ponds and if I do not pay close attention to ALL the parameters in and around the ponds I could have some serious issues.**

**I avoid these issues by over filtering and constant vigilance to the koi. If you really want to avoid the issues Jack mentions and ENJOY your pond then DO NOT over stock, under filter or get lazy about water changes.**

**Do learn what to look for before it becomes a major issue and you lose fish.**

**That's just my nickels worth of insight.**

**The following pages are the KHA Korner**

## KHA Korner -Prevention/Treatment options for Ulcers and Fin Rot

Well, I spent the last two months describing pond conditions/environment that can and do lead to your koi pets developing skin ulcers and fin rot caused by bacterial infection most often *Aeromonas Hydrophilia*. As promised this month I will attempt to deal with the multiple things that you can give attention/consideration to when dealing with this common koi ailment.



No one wants to see the above in their koi ponds and the degree with which you practice what I call “healthy pond practices” described below will, in my opinion, have a direct effect on the number of times you will have to deal with the likes of the above pictures. I’ll try to cover most of the main considerations, but by no means is the list complete. The first area of treatment – I want to call **prevention**.

This list is not in any order of importance, but individually and especially in combination can be expected to greatly reduce and hopefully control/eliminate your incidence of skin ulcers and fin rot.

1. Weekly pond maintenance is top of my list to help keep the level (amount) of harmful bacteria under the infection level for the weakest koi's immune system. This would include but not be limited to recorded weekly water changes something like 10% winter 15% spring and fall and 20% summer. You know one of my favorite statements "The solution to pollution is dilution." Recorded weekly water parameters measured for pH, temperature, ammonia NH<sub>3</sub>, nitrite NO<sub>2</sub>, nitrate NO<sub>3</sub>, Alkalinity KH for starters as we need to do all we can to reduce koi STRESS as it is vitally important to maintain our koi's general healthy status.
2. Good filter/pond design to remove any detritus and decomposing organic carbons (Docs) from the water column and collection points on the bottom of your pond. Want to reduce the food sources for bacteria to call home and multiply in. Not good when you see your koi resting on the bottom in their favorite spot and you see detritus moving in the water column when they come to rest or especially when they swim away. To make matters worse they will normally choose their resting spot for protection - reduced water movement – deepest available area. This is also the same area where any detritus is most likely to settle and provide home to a growing harmful bacteria colony and increase decomposing ammonia release among other unwanted guests (parasites). These little unwanted guests are looking for the perfect "host" and will penetrate that little 'nick in the armor' of your fishes' slime coat or raised scale and settle in to do their damage.
3. I truly believe how you put your pond to bed for winter has a DIRECT effect on the amount of spring disease/illness you may experience come March. Here in Southern California, we have a lot of koi ponds that never get to a temp that eliminates the growth of Aeromonas (39F) so we have the bacteria in our ponds virtually 365 days a year. It is why, for my area, I do my bio chamber annual cleaning in the fall when my koi's immune system is still on high alert. Providing an especially clean pond going into spring makes it harder for the bacteria to reach infection levels during a time when the koi's immune system is yet to get back up to speed.
4. As much as we love our koi it is not a good idea to over stock our ponds causing added stress and pollution for you and the pond to deal with.
5. I recommend a close examination of existing ponds for anything your koi can injure themselves on by hitting and causing injury or disruption to their

slime coat, skin or scales. Just like our skin - these 3 items are your koi's physical defenses against the introduction of bacterial infections.

6. Good nutrition is an excellent way to assist your koi's general health and immune response to illness. But remember "Poop Watch " in the early AM will tell you if you're over doing it and the undigested protein resting in visible fish poop deposits on the bottom of your pond is food for the bad guys.
7. If you have plants in your pond stay after the removal of dead plant material. If possible, smell your plant containers for that "rotten egg" smell. Dead plant material has turned the aerobic bacteria (oxygen) into anerobic bacteria (no oxygen) that is H<sub>2</sub>S Hydrogen Sulfide. H<sub>2</sub>S is extremely toxic and can be fatal to your fish. Never disturb plants while they are in your pond as H<sub>2</sub>S will be released. Always remove and clean.
8. When your pond system is otherwise in balance with Mother Nature all is good and you should do all that you can to keep it that way without the assistance of pond water additives but when it is out of balance you may want to consider some of a host of commercially available products to assist with your current issues but do your homework first please. Now most of you are familiar with dechlorination products when conducting pond water changes. When you determine that your existing pond conditions for whatever reason (usually clarity or sick koi) need assistance you can look for guidance from competitive exclusion products – they eat the detritus and do not eat your koi but then there is less food for the bad bugs. There are sludge buster products to assist removal or even a pond vacuum can be a big help. Algae control is another area you can review for chemical assistance. Lastly in this area there are oxidizers and occasionally I use potassium permanganate to assist me with general pond water clean-up but you need to educate yourself about this product before using as you can kill your koi. If you can't see your koi how can you enjoy them and detect when they are having health issues? Keep in mind that all of these "oxidizers" need lots of oxygen to do their job so play it safe and supplement with additional air pumps when using.
9. So, I saved my last prevention consideration for a physiological possibility that may or may not be true but makes sense to me. Availability of OXYGEN produced as close as possible to saturation in your pond water for

your koi's overall health status. Story goes something like this. Koi use a LARGE part of available daily energy to maintain their osmoregulation and meet their oxygen requirements. The gills provide a major part to accomplish this 24/7 task and if they have to use less available energy to acquire the oxygen then that unused energy can be used to accomplish other body functions leading to improved health to ward off illness and disease. A bit out there I guess even for me LOL.

10. Only thing left to do is LOOK FOR IT – generally daily usually at feeding time and seriously once a week. Also keep an eye out for individual koi behavior out of the ordinary flashing, breaching the surface (jumping) and or isolating themselves on the bottom of your pond. Keep an eye out for changes in skin color and for areas of redness or pine coning of scales (raised scale). *When you see it – treat it – the sooner the better – leading to less mortality, less disfigurement and smaller scarring.* While this article is dedicated to bacterial infections from Aeromonas Hydrophilia you will need to be on the lookout for associated infestations of koi parasites, anchor worms (Lernaea) and fish lice (Argulus) requiring a suggested scrapping and microscopic exam prior to treatment of an open ulcer on your koi. I'll leave koi parasite treatment for another time.

So, for those of you still with me, it's time to list some of the more common and reported successful treatment options for your further research and consideration when you find yourself with a koi with active fin rot or ulcers on their skin. Special Note: I truly believe the first treatment option you should consider for an open ulcer on your koi's body is a trip to the Veterinarian where the decision will be made whether to prescribe antibiotic injections as part of the total treatment plan. Fact: Most backyard ponders I encounter choose a treatment plan minus the vet visit resulting in selection from the following list which is not in any order of precedence and I'm sure I'll forget one or more and I love hearing from you all - just a never-ending cool part of this hobby for me anyway.

1. Treatment is mostly to first anesthetize (clove oil or MS222) your koi followed by microscope slide scrapping and cleaning infected area followed by topical application of an antimicrobial solution/ointments. Among others - to include hydrogen peroxide followed by povidone-iodine 10%

solution using cotton tip swabs and ending with something like Bio-Bandage liquid. Note: Wear gloves and EYE PROTECTION during any koi treatment procedure. An internet search will provide treatment videos and products like Orahesive, Koi Healing Balm, Propolis Wound Seal, Aquascape ulcer/bacterial infection treatment, Melafix, MinnFinnMax and Tricide-Neo Dip for Koi to name a few and use as directed on product. I need to be careful about endorsing individual products with my limited experience with some treatment options, so I'll leave it to your research – However I'll share my experiences with any club member just give me a call and I've experienced different degrees of success with most the major product lines for treatment when dealing with koi fin rot and skin ulcers. The best treatment remains a visit to the vet for koi with open ulcers.

2. In an ideal situation you would have an isolation quarantine tank to assist with multiple treatments. This is especially true when you have sick koi, and your pond temp is below 70/72F degrees as a koi's immune system is not fully active the lower you drop pond water temp. Lower mortality and a quicker and improved recovery time will be experienced after moving a sick koi to a quarantine system where the temp is slowly raised to 75/76 degrees during treatment. I've been advised, when this is done during wintertime to keep the recovered koi in quarantine at around 70F and not return the recovered koi to your main pond till its temp reaches 68F.
3. There are medicated koi foods on the market and you might consider them as some club members, me included, have used them in the past.
4. This site is one of the better ones I've reviewed on subject matter and hope you find helpful <https://hanoverkoifarms.com/koi-wounds> .
5. Lastly, I use a one-time treatment of potassium permanganate in almost a paste form to treat subject area neutralized with hydrogen peroxide after 1 to 2 min treatment followed by wound sealing. Disclaimer: Please note this is not recommended by some vets with other successful less harmful treatments availability.

Well, I hope you found this informative as I can get a little long in the tooth sometimes LOL. The internet can be a big resource on this subject and I look forward to seeing some of you at our first after pandemic club meeting scheduled for April – can't wait and stay safe and healthy.

## Monthly Complete Report

### Miramar/Alvarado/Otay Filtration Plants

### February 2021

Analyte	Miramar Effluent	Alvarado Effluent	Otay Effluent	Units	MDL
pH	8.14	7.99	8.26	pH	
Conductivity	892	837	976	µmho/cm	
Total Alkalinity	126	135	136	mg/L	20
Total Dissolved Solids	564	529	600	mg/L	10
Total Hardness	<b>269*</b>	264	<b>274*</b>	mg/L	10
Calcium Hardness	<b>163*</b>	154	<b>152*</b>	mg/L	10
Carbonate	0	0	0	mg/L	
Bicarbonate	153	164	164	mg/L	
Turbidity	0.08	0.1	0.08	ntu	0.07
Color	1	ND	ND	color	1
Bromide	ND	ND	ND	mg/L	0.1
Chloride	97	94.4	104.5	mg/L	0.5
Fluoride	0.538	0.48	0.358	mg/L	0.02
Nitrate	0.955	1.40	1.30	mg/L	0.40
Nitrate (as N)	0.216	0.315	0.293	mg/L	
Ortho Phosphate	ND	ND	ND	mg/L	0.1
Total Nitrogen	0.822	1.1	1.03	mg/L	0.156
Silica	8.1	10.6	8	mg/L	0.625
Sulfate	194	164	189.5	mg/L	0.5
Aluminum	ND	ND	ND	µg/L	15
Calcium	65.2	61.6	60.8	mg/L	
Copper	ND	ND	ND	µg/L	5
Iron	ND	ND	ND	µg/L	100
Lead	ND	ND	ND	µg/L	2.0
Manganese	2.07	5.11	ND	µg/L	2.0
Magnesium	25.4	26.4	29.3	mg/L	3
Potassium	4.56	4.66	4.89	mg/L	0.5
Sodium	97.6	89.4	114.5	mg/L	20
Zinc	ND	ND	ND	µg/L	15
Aggressive Index	12.4	12.3	12.5	.	
Langlier Index	0.61	0.47	0.73	.	
Total Organic Carbon	2.37	2.99	3.49	mg/L	0.3
Total THMs	25.0	20.0	37.5	µg/L	0.4
HAA5	NA	NA	NA	µg/L	1
Bromate	ND	ND	---	µg/L	5
Chlorite	---	---	0.398	mg/L	0.02
Chlorate	---	---	0.130	mg/L	0.02
Perchlorate	ND	ND	ND	µg/L	4

< = Less than

ND = Not Detected

--- = Not Sampled

NR= Not Reportable

NA = Not Analyzed

MDL= Minimum Detection Limit

**\*Hardness samples analyzed out of holding time; however, results are representative and included here for informational purposes.**

April 2021

## Need to Get Rid of Nitrates? Learn HOW!



Learn the chemical processes involved -  
- Estimate nitrate reduction of single basket  
- How Anoxic removes both  $\text{NH}_3$  and  $\text{NH}_4$   
- Various implementations diagrammed  
<https://koiorganisationinternational.org/course/anoxic-filtration-311>

## K.O.I. Member CLUB



For Designated Reps and Newsletter Editors

### ARTICLE Library!

Use as Many as You Want!

Articles are Current, Accurate and USEFUL!

<https://koiorganisationinternational.org/member-clubs-page>

Is YOUR Club a K.O.I. Member Club?

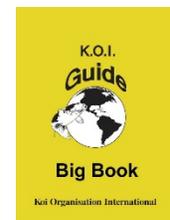
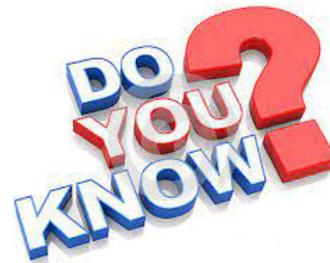
<https://koiorganisationinternational.org/product/club-membership>



### PLEASE!

Log-on to the K.O.I. website  
UPDATE your Email addy!

Click on MY Account, and update!



### WHAT ARE the SYMPTOMS of an ICK infestation?

It's in your GUIDE - Supplement #3 - color fold-out entitled "Clinical Signs of Disease"

Learn More, Become a Member!

<https://koiorganisationinternational.org/koi-memberships>



### TIP OF THE MONTH

#### Keep Healthier Koi

Use the SAME FEED Year Round  
Vary amount fed by water temp.



Use a Digital Infrared Thermometer  
To get pond temperatures in an instant!

## Speed of killers

- 1 White Spot - ick
- 2 Costia
- 3 Chilodonella
- 4 Gill flukes
- 5 Trichodina (if numerous)
- 6 Skin Fluke
- 7 Lice
- 8 Anchor Worms
- 9 Leeches

**Oodinium**  
visible at 200X

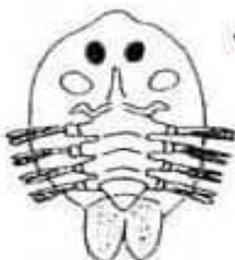


**Ick (white spot)**  
visible at 200x

**Gyrodactylus  
Skin Fluke**  
visible at 100x



**Argulus  
Louse**  
visible



## APPENDIX FIVE Parasites of the Skin – Stylised Diagrams

commas -turn  
inside out

**Costia**  
visible at 300x  
- 400x



**Chilodonella**  
visible at 200X  
Looks like lemons



**Leech**  
visible

**Trichodina**  
visible at 200x  
flying  
saucers



**Dactylogyrus  
Gill Flukes**  
visible at 100x



**Lernaea  
Anchorworm**  
visible



Adapted from Scott P.W. (1985) in *Manual of Exotic Pets Revised Edition*  
(Edited by J.E. Cooper, M.F. Hutchison, O.F. Jackson, R.J. Maurice) B.S.A.V.A. Publications.

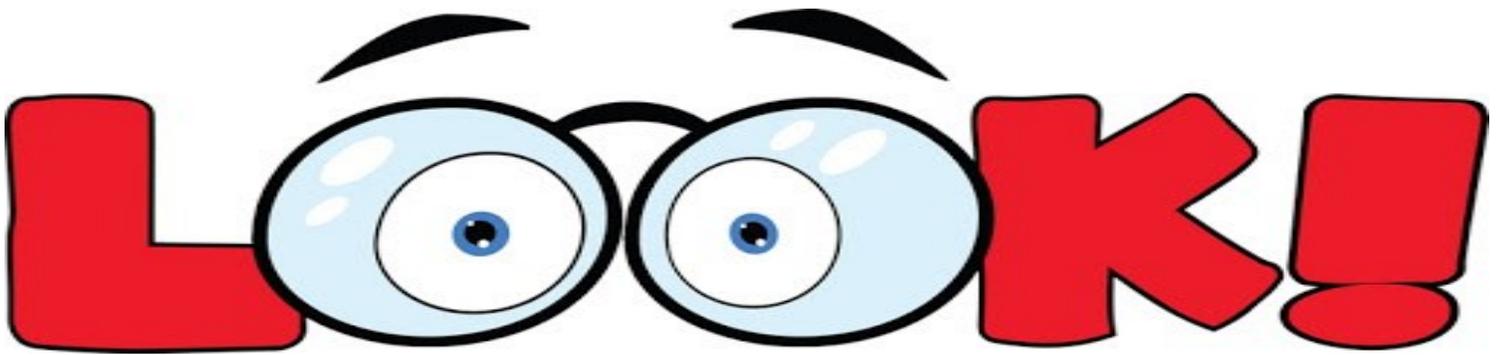
This is a link to Mankysanke article on carp pox as well as the home page

[http://www.mankysanke.co.uk/html/carp\\_pox.html](http://www.mankysanke.co.uk/html/carp_pox.html)

[https://www.mankysanke.co.uk/html/good\\_water\\_guide\\_pt\\_1.html](https://www.mankysanke.co.uk/html/good_water_guide_pt_1.html)

<http://www.mankysanke.co.uk/index.html>

There is a plethora of great information here. (How's that for a \$5.00 word eh?)



Ben Adams has the following equipment for sale

- 1 Aqua UV Ultima II pond filter, A50007 Ultima II 6000 2"
- 1 Sequence pump, 5000SEQ204000 Series 1/6hp, NEW (used 2 months)
- 1 Waterway Leaf Trap, BS200LA, Black Strainer 2-in. x Buttress 1/2 in. Union
- 1 Aqua UV 80 Watt Clarifier, A0008080 Watt UV 2 in. White

New items included:

- 3 sq. ft. Bio media for filter
- 2- A10040 Quartz Sleeve 40 Watt
- 2- A20040 Lamp UV 40 Watt

Note, if purchased new \$3,000.00 from San Diego Pond and Garden  
Asking \$1,700.00 for all.  
Asking price for individual components on request.

Thanks Jerry.

Ben Adams [email--iblitrack5@yahoo.com](mailto:iblitrack5@yahoo.com)

**There is a rumor of an AUCTION floating around. I will inform everyone as soon as I  
Have more information as to when it will be held**

This from the minutes of March:

**We will try to have a fish and equipment auction hopefully before October. Jerry  
Myers and Matt have a bunch of equipment and some people are needing to pare  
down their ponds. The auction will be taking place out in Poway on a Sunday, where  
the Stewart's business is, on Stowe Dr, close to San Diego Pond and Garden which is  
on Old Pomerado Rd.**

# LINKS

Some really *crappy* links, Get it?

These links contain information relating to Koi poop. As with any information on the web be careful on what you take as truth. The KCSD absolves itself of any misinformation on these sites. Remember Knowledge IS power

<https://www.kodamakoifarm.com/koi-sick-health-diagnosis-symptoms-diseases/#:~:text=Feces%2FWaste,your%20koi%20might%20be%20eating.>

<https://allaboutkoi.us/2016/04/22/koi-feces-diagnosis/>

<https://www.koiphen.com/forums/showthread.php?115076-Lets-talk-Koi-poop>

This BTW is a good site to bookmark and join

<https://cafishvet.com/fish-health-disease/stringy-white-fish-poop/>

This site is Dr. Jessie Sanders DVM up north. Check out her site and subscribe to her newsletter. Her specialty is fish

<https://drjohnson.com/changes-in-stool-quality-in-koi-goldfish-and-pondfish/>

This is Dr. Erik Johnson DVM site. He is well know in the fish community and has writen many books on fish and their health.

<https://koi-care.com/koi-diseases-treatments/>



# AKCA

[Click to be directed to website](#)

Sure, you know everything there is to know about your pond and koi.

That is right up to the second it all goes south!

Parasites, water parameters, pond or filter issues, WTF (udge) is wrong here?

Ohhh I'll just call someone! Tic toc time is wasting. Fish need help!

Sound familiar? Welllllll take the course and learn what you really know!

John and I, Jerry, have both taken the course and learned quite a bit about our pond and fish.

You owe it to yourself and you koi to learn.

Latamer P Koi



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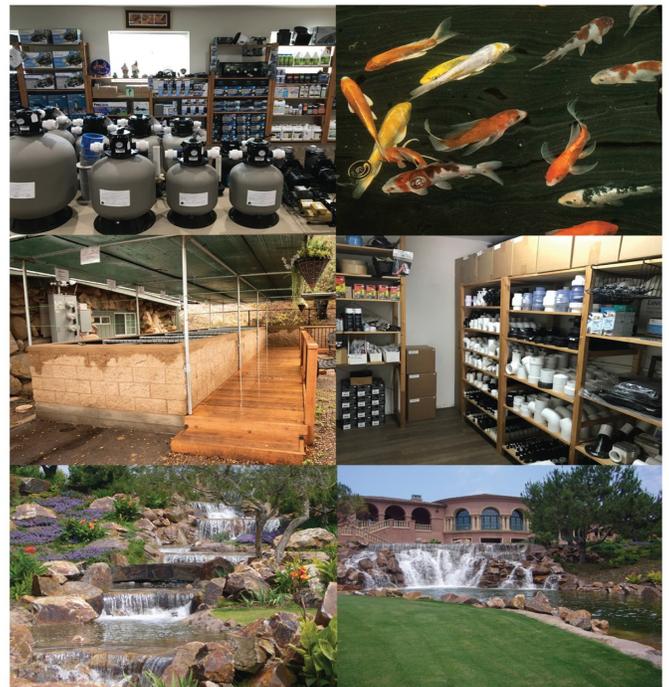
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I have decided to link both the SmugMug accounts of Bill Newell & Phyllis Spoor to the newsletter and the website. Both of our club members take fantastic pictures of everything you can think of all over the world. For Bill's SmugMug click his picture.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

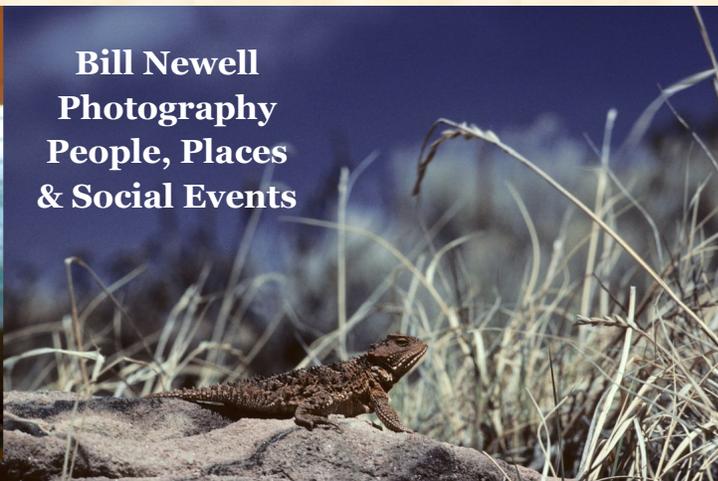


**Phyllis Spoor**  
**Sparkley Hat Photography**  
**Nature, Landscape &**  
**Club Special Events**

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, **Koi Rescues** and special events, **Phyllis Spoor and Bill Newell are always ready at a moments notice and we thank you!**



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**Koda:**

"Nijikawa are used at Nisai 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:**

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**Ozumi Ikarashi:**

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