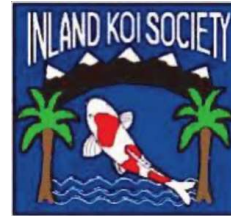


The Inland Koi Connection



THE OFFICIAL
NEWSLETTER
OF **IKS**
ISSUE 304
MAY 2024

SUNDAY 5/19/24

WWW.INLANDKOISOCIETY.ORG



IKS POTLUCK MEETING
12:00 PM
SUNDAY, MAY 19TH 2024
HOST: LONI VOGLER
7866 Hagen Circle Hemet CA 92545
951.323.0633
BRING FOOD AND CHAIRS !



MAY HOST PROFILE

Loni's beautiful pond is filled with about 34 big, colorful, friendly fish of all kinds. All of the 34 fish in the big pond each have names and unique personalities. Some of the koi are **hand picked by Loni** from her trip to Japan but most koi are from **Shawn from Mystic Koi**. Loni's pond uses a bog filter system where the water gets filtered into a small pond behind, which then gets brought back into the big pond. All of the nutrients is brought naturally through all the plants surrounding the pond.

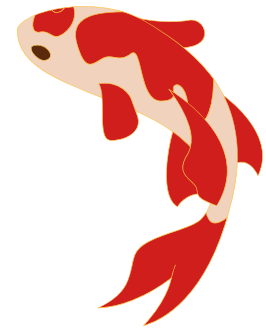
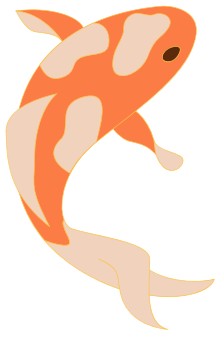
Our joint meeting with the **San Diego Koi Club** is right around the corner on **May 19th**. Please note that **the starting time is 12:00 PM**. There will be a potluck as usual, but they do their raffle a bit differently. Bring an item for their table and you will get a ticket to select an item that someone else brought. It is more like a gift exchange, they don't sell tickets like we do. **We hope to see a great Inland Koi Society turnout to rekindle relationships and create new ones with our sister club.**
We hope to see you there!!!



Apart from the big pond, **Loni** has two smaller ponds filled with baby koi that she has been raising. She has already sold about 150 little fish!! You may be asking, **How did Loni get so many babies??** Well, while Loni was on her trip to Japan her fish in the big pond spawned twice leaving her with hundreds of extra fish.

Not only does **Loni** enjoy taking care of her koi fish but she also loves plants!! Loni has a very comforting yard with lots of shade. On the side of the yard Loni has a beautiful garden with many different types of plants. In the past, Loni has had problems with birds of prey such as Cranes and Herons. To prevent the birds from continuing catch Loni's precious koi, she wrapped her entire patio in deer wire. Since she wrapped her patio with the deer wire, she has not experienced any problems with fish eating animals.





For extensive Koi examinations and treatments, it is often best to utilize anesthesia. Then, someone gives you some clove oil, tells you to put it in a bucket with pond water, mix it up – that’s all there is to it!

Of course, when you try it, the oil droplets glob up on the surface, you have no idea how much to use, how to tell how long to leave the Koi in, or how to bring them back to consciousness afterwards. Even if you pass this point, and the Koi falls asleep, you pray that you didn’t kill it. Just as using anesthesia may induce anxiety, palpitations, lightheadedness and diaphoresis (and that is just in you), the process of examining and treating a Koi may be quite stressful for your fish. Anesthesia can make it easier on the Koi, and easier on you.

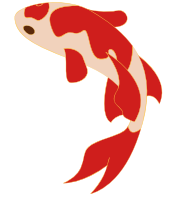
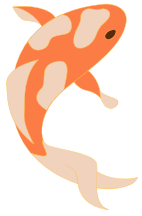
The goal of this article is to help every Koi owner understand a bit about anesthesia, and have the option to use it when and if it is needed. This document is not meant to provide all the training required. Before attempting anesthesia, you should take the K.O.I. course on “Diagnosis and Treatment.” It is not difficult to use anesthesia, but a base level of understanding and education is required for a successful outcome. Remember that a chance to treat is also a chance to kill, and that the primary ethic you use should be “Do No Harm.”

Before you begin, have all your tools and supplies ready, so you can minimize the time the Koi spends under anesthetic. It is critical that you have thought through everything you will need, or might need, and have it ready and waiting before you start. Preparation should take more time than the actual anesthesia.

There are many anesthetics available for use with Koi. We will discuss three different drugs. 2- **phenoxyethenol** (known as 2-PE), **clove oil** (eugenol), and **Tricaine Methanesulfonate** (also known as TMS, MS-222, Tricaine-S, Syncaïne or Finquel).

We’ll discuss clove oil first, as it is inexpensive, readily available and fairly easy to use. The oil is challenging to dissolve in water. You may add nine parts ethanol to one part clove oil to dissolve it before adding it to the pond water. If you don’t dissolve it, you can add the clove oil to a small container with water and shake vigorously to help break up the clove oil droplets into much finer particles. Clove oil has a very strong odor, that will linger through several washings, so be careful what it touches. Generally, clove oil acts rather slowly, both while the Koi are going to sleep, and while they are waking up. The strong odor has been purported to affect the Koi’s taste, such that they may not find their usual feed palatable for several days until the effects of the clove oil wear off. Remember that each Koi is different, both in their starting health and metabolism, their susceptibility to drugs, and in their reaction. Never assume you know exactly what will happen.

Tricaine is the gold-standard of fish anesthetics, and is used by most vets. It is extremely quick and effective, and quite expensive. It is easily soluble in water, but drastically reduces the pH and increases acidity, so should always be used with some baking soda. It should always be handled with gloves. Tricaine is also the euthanasia product of choice, although any anesthetic can be used. If euthanasia is desired, remember that Koi can survive 30 minutes after gill motion has stopped, and that fish hearts keep beating (very unlike a human!) for a long while. For euthanasia, it is recommended that you observe the Koi until gill motion stops, then cover the container and wait an hour before removing and burying the Koi.



Because Tricaine is so expensive and harder to obtain for the average pond keeper, K.O.I. has found that 2-PE is an excellent alternative, and is about ¼ the price! This fish anesthetic is commonly used in the UK, and K.O.I. now makes it available to hobbyists in the USA at group-buy prices. You need to be a K.O.I. member to take advantage of this offer, and inquiries can be directed to the K.O.I. store manager, Kevin Fuess – kevin.fuess@gmail.com. No water containing an anesthetic should be saved for later use. Anesthetics should be mixed with water immediately before use and discarded immediately after use.

Koi usually become anesthetized in about 2 minutes, and recover in about 5-6 minutes in fresh water, but every Koi and anesthetic are different. Always have a container of fresh water next to the anesthesia bowl. If the gill motion stops while you are inducing the Koi, immediately remove the Koi to fresh water and recover it. Try to avoid repeat anesthesia as residual drug may remain in muscle tissue as long as 24 hours later.

The Koi in anesthetic will begin to roll over to its back or side and become less responsive. Gill movement will slow, but do not let it stop. To determine if the fish is adequately sedated, lift it with one hand under its center. If not completely anesthetized, its tail will flex. Keep in mind that for most examinations and scrapings, fairly light anesthesia is needed. For more extensive work (debridement, trimming fins, surgery), more is needed. When you begin working on the Koi, even though you may have removed the Koi from the anesthetic solution, a deeper level of unconsciousness may continue to occur (even with proper dosing), and gill movement may continue to slow. The heart will continue to beat even if respiratory movements have stopped. The Koi brain can survive for fairly long periods of time without oxygen (very different from humans). Or, if the Koi starts to move and arouse, you may need to place it back in the anesthesia solution again.

To arouse the Koi, place it in a fresh bowl of well oxygenated pond water. Be sure that the temperature is the same. You may 'swim' the Koi slowly through the water – but ONLY FORWARDS. Never attempt to swim a fish backwards, as permanent gill damage may occur. If the Koi is very slow to respond, remain calm. Continue to move the Koi forward in the water to assure the flow of fresh water across its head and mouth. The more anesthetic used, the longer it may take for recovery.

Ensure adequate oxygenation of the water. Lack of recovery from anesthesia is quite rare, but may occur.

To make recovery easier, a very small fountain pump (35 gph or smaller) can be used. Attach the outflow of the pump to some tubing that will fit into the Koi's mouth. When you are ready to bring the Koi back to consciousness, put the pump in the fresh water with the tube in the Koi's mouth, and turn it on. For longer more involved procedures, vets often use a pump to keep a steady flow of anesthetic, and vary between pumping fresh water and anesthesia, depending on how the Koi is reacting to the surgery. Using a small pump for recovery makes it easy for the owner, and will bring the Koi around faster after being anesthetized.

If you need to anesthetize one of your Koi, consider trying anesthesia on a goldfish first, and have someone experienced guide you through your first experience. As with many things, the more experience you have, the safer and more comfortable the procedure will be. Please consider taking the course on Diagnosis and Treatment before attempting it.



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- **Larry Leverett** ~ 951.781.3887
@inlandkoi society.org
- **Theo Zoetemelk** ~ 951.735.9896
@inlandkoi society.org

Upcoming Events

05 19~ IKS General Potluck meeting
12:00 PM
Loni Vogler - Hemet California
San Diego Koi Club Joint Meeting

06 02~ IKS Board Meeting
5:30 PM
Theo and Jeanne Zoetemelk

Interested members are welcome to attend, but please call hosts to let them know beforehand, 951.735.9896

06 23~ Barstow Koi Tentative
9:00 AM arrival in Barstow
We will be carpooling for this event.

07 07~ IKS Board Meeting
5:30 PM
Larry and Debby Leverett

Interested members are welcome to attend, but please call hosts to let them know beforehand, 951.781.3887

07 28~ IKS General Potluck meeting
3:00 PM
Steve and Laura Nyirady

09 08~ IKS Board Meeting
5:30 PM
Nick and Peggy Milfeld

Interested members are welcome to attend, but please call hosts to let them know beforehand, 951.780.7395



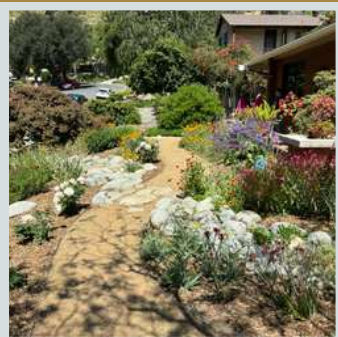
Riverside Flower Show and Garden Tour



On the weekend of April 27th and 28th, we got to visit six gorgeous gardens as well as attend a flower show. **It was a great turnout!!!**

A huge **thank you** to those who attended and helped with set up and clean up!!!

On the Garden tour, we saw **six beautiful gardens**. Each garden was very unique and had their own special features. No two gardens were the same. It was also such a pleasure to see that the Milfelds' amazing yard was also a part of the tour.





May 2024

Coming May 4!



NEW Ideas! Hacks, Mods and Temp. Solutions!

Do you need a quick fix?

What are some simple ways to improve your pond?

We will cover the following topics, with something for everyone! •••

- Pond Volume
- Aeration
- Filtration
- Water Changes
- Cost Savings
- Reliability
- Safety
- Aesthetics

12 Noon EDT, Saturday

Check for your K.O.I. email invite, or see your club rep for Zoom join code!



Are YOU attending a Koi Show? K.O.I. is Looking for Volunteers to Help Staff a Table!

- You don't need to work the entire show – 4 hours would be great!
- Share info about K.O.I. with attendees
- We will send you the material – banners, handouts, etc!
- We will train you and give you examples of how to set up the table
- Please volunteer! Email pattist@snet.net



TIP OF THE MONTH

PVC Pipe is Not all the Same!

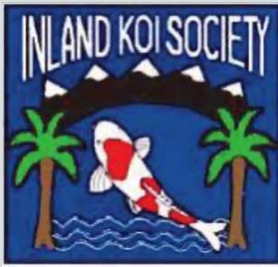
- Use Schedule 40, not DWV. You can tell the difference by looking at the amount of 'glue area' at the end of the fittings. DWV does not have enough room for the glue to hold the pipe together under the pressure of a pump!
- Use FLEX PVC Schedule 40 when possible!



- Can bend over and around obstacles
- Makes broad sweeping turns to reduce head loss from your pump
- 2" x 100 ft rolls sold at Big Box stores. Black and white, white is cheaper. Can be buried.

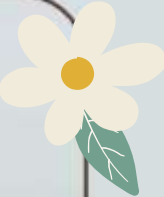
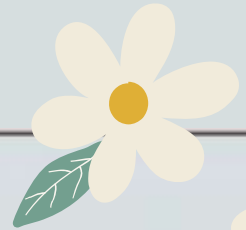


If you haven't renewed your membership this year, you will be dropped and lose your perks June 1!



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Thank you to **Chien Lee of Nijikawa USA** and to **Iva Gaglione of Ultra Balance** for supplying the Inland Koi Society with a supply of nutritional koi food for its rehoming program!!!



We are in need of someone with enough space to house rescue fish!!! Please see **Scott Zehm** for more information.



Visit Our Website: www.inlandkoi.com