

The Inland Koi Connection



THE OFFICIAL
NEWSLETTER
OF **IKS**
ISSUE 309
OCTOBER 2024

SUNDAY 10/27/24

WWW.INLANDKOISOCIETY.ORG

IKS POTLUCK MEETING 2:00 PM

SUNDAY, OCTOBER 27TH 2024

HOST: FRANCINE HOFFMAN

5720 VIA CONEJO,
RIVERSIDE, 92506

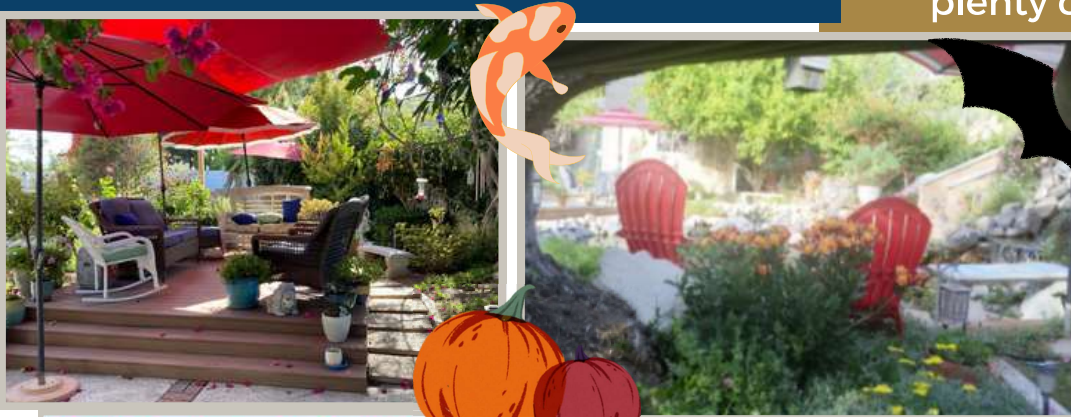
951.781.8209

BRING FOOD AND CHAIRS!!!



Inland Koi Society members who enjoy both koi ponds and gardens are in for a treat this month!! It's been a few years since we visited **Francine Hoffman** and her marvelous gardens. Her half-acre property is at the dead end of a cul-de-sac, just what she wanted so she could create a place full of pockets of peace and privacy, comfortable corners for quiet conversations, undisturbed even in a crowd. We haven't been able to visit her this week, so we are unsure of how many changes she's made in the past few years, for she is always doing something!

Francine designed the koi pond and had her nephew Dave, an electrical engineer, build it for her. The full-sun koi pond measures about 10 x 25 feet and is 5 feet deep at its deepest. She has a system capacity of about 4000 gallons with a Savio waterfall style filter, an in wall skimmer, as well as a bottom drain. She later had a second pond built to accommodate her **goldfish**. The goldfish pond is a rectangular low wall pond under a gazebo with plenty of seating all around.



5720 Via Conejo, Riverside CA 92506

DIRECTIONS to Francine's from I-215:

- ◆ Exit on **CENTRAL/Watkins BLVD.**
- ◆ Turn **West** onto **CENTRAL AVE.**
- ◆ Turn **Left** onto **CHICAGO AVE.**
- ◆ Turn **Left** onto **COUNTRY CLUB DR.**
- ◆ Turn **Right** onto **INTERVALE DR.**
- ◆ Take the 1st **Left** onto **VIA TIOGA.**
- ◆ Take the 1st **Right** onto **VIA CONEJO**
- ◆ 5720 is at the left end of the cul-de-sac.

Prepare yourselves for a wonderful meeting at the home of a **spectacular hostess** with many interesting stories to share. Remember that **start time is 2:00 PM** as we have moved to fall and winter schedule.



We usually enter the yard through the gate to the right of the porch, or sometimes through the driveway gate if it is open.

Filtration is the act of removing a substance or substances from a larger conglomerate of substances. Here we will concern ourselves with those filters that most commonly affect our ponds. There are many brands, variations, Do-It-Yourself (DIY) projects and price ranges. Please do your research and consult with an experienced club member. It can save you time, money, and frustration avoiding the use of ineffective, sometimes very expensive products. Koi Organisation International (K.O.I.) offers basic and advanced courses on Filtration. These are well worth your time to gain insights into ensuring your filtration provides what is needed for your pond and your koi.

Mechanical (often called Prefilters):

These are used to physically trap or separate solids ranging from large pieces such as leaves and fish feces to microscopic and finer sized contaminants such as algae.

- **Filter Baskets:** These are typically mesh-type baskets, often used before a pump inlet and common in skimmers. These only trap larger contaminants. They are easy to clean but must be cleaned often.
- **Mesh Mats:** These come in various grades to trap small to large solids. They are often a component of skimmers and waterfall boxes. Mesh mats are also often used in Do-It-Yourself (DIY) systems. They get dirty, clog easily and are a laborious task to clean.
- **Brushes:** These are like bottle brushes but larger. You will need a bunch of them. They are easy to clean but not very common in newer systems.
- **Settling Chambers:** These can be anything that allows water from the pond to slow down and let the solids settle. Settling chambers are often used with a bottom drain. Examples include a long container, a vortex where the water spirals up to an outlet and a radial flow separator which is an enhanced vortex. Properly installed with a drain, these are easy to clean. Sometimes footprint size of chambers can be a problem.
- **Sieves:** Water flows into the top, then over a special screen which catches the solids down to usually 300 microns. Sieves are fairly low maintenance and cleaning effort is minimal.
- **Rotating Drum Filters:** These are the latest favorites in mechanical filters. Dirty water enters a rotating screen drum. Clean water exits the drum to the biofilter or pond. Sensors automatically turn on a spray bar to clean the drum. Filtration through drum filter is often under 100 microns. There are lots of electronics involved. Water consumption may be a concern.
- **Static Media:** These are usually DIY filters where water enters a chamber at the bottom and exits at the top. Media can consist of anything that will “trap” the solids such as plastic beads, sand and gravel, strapping tape etc. Cleaning is done by agitating the media, usually with air. Water flow must be limited to not agitate the media during filtration. Some bead filters (see below) may serve as a static media filter.
- **Reverse Osmosis:** This is usually only used in high end koi ponds and where the source water has contaminants that cannot be removed effectively in other ways. This works at the molecular level. This is not common and is expensive to run.

Biological (often called Bio-Converters or just Bio):

These are living organisms that will consume and convert specific substances into other substances. Apex organisms include Blue Herons, Racoons and the like, that convert our fish into poop. (Sorry, but these meet the definition of filtration included at the top of this article.)

Okay, now on to the relevant stuff – bacteria. I will define them by what they do, not by their names or by pictures. Our fish and other biological activities produce ammonia. This can be very toxic to our fish. One type of bacteria converts this ammonia to nitrite which also can be toxic. A second type of bacteria converts nitrite to nitrate. Those two types of bacteria require substantial oxygen. A third type of bacteria under low oxygen conditions will convert nitrate to nitrogen gas. Nitrate affects the appearance and health of our fish and is toxic only when very high. Ammonia, nitrite and nitrate are good fertilizers for our plants, especially algae. All damp surfaces in our ponds contain these three types of bacteria. The Bio-filters below encourage beneficial bacterial growth.

- **Bead Filters:** These are very popular, compact, easy to clean with backwash or agitation. Media is usually plastic beads. Most bead filters are pump feed and operate under pressure. If water flow is slow enough to not fluidize the media, it will also suffice as a mechanical filter for fine particles (fines). There are specialized bead filters for fines only. Be skeptical of manufacturer's claims as to size of pond these filters will accommodate. Bead filters should be cleaned often.
- **Shower Filters:** These are a series of stacked trays or baskets filled with ceramic or plastic media. A high flow of water cascades through the first tray, into the second, third, and so on. Essentially it creates a big waterfall. There is little maintenance needed.
- **Moving Bed:** A moving bed is a container that holds a media that is continuously agitated, usually by air. Media is typically a plastic bead but can also be sand or other light weight media. These require little maintenance.
- **Fixed Bed:** A fixed bed is a container that holds media large enough to not clog easily. These are usually DIY filters. Media can consist of strapping tape, filter mat pieces, hair curlers, paint rollers, and just about anything else that provides a large surface area and won't deteriorate.
- **Trickle Tower:** This is a thin, low amount of water slowly dribbling down over a medium. Effective but rarely used today.
- **Anoxic Filter (low oxygen):** In this type of filtration, water flows around the media of the filter. Ammonia, nitrite and nitrate ions are attracted to the interior of the media where bacteria consume them. Anoxic filters are very effective in reducing nitrates. They are low maintenance and easy DIY systems.
- **Bog and hydroponic filters:** These use plants to consume ammonia compounds. These are also easy DIY systems that may be built into the pond or built in a separate container and incorporated into the pond water flow.

Chemical:

Chemical filters are usually only used for specific conditions. These can be used either with source water or pond water. Your water conditions may require more solutions than the limited list below.

- **Water Softeners:** to reduce hard water to soft.
- **Zeolite:** to reduce ammonia
- **Activated Charcoal:** to reduce chlorine and certain other chemicals.
- **Specialized:** to reduce heavy metals, iron, other contaminants.



2024 Board of Directors

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@inlandkoisociety.org
- **Theo Zoetemelk** ~ 951.735.9896
@inlandkoisociety.org

Upcoming Events

10 27~ IKS Board Meeting
12:30 PM
Francine Hoffman
5720 Via Conejo, Riverside, 92506
Interested members are welcome to attend, but please call hosts to let them know beforehand, 951.781.8209

10 27~ IKS Potluck meeting
2:00 PM
Francine Hoffman
5720 Via Conejo, Riverside, 92506

11 17~ IKS Thanksgiving Dinner/ Elections
2:00 PM
Jerry and Pat Mall
43024 Via Las Rocas, Temecula 92590

12 08~ IKS Board Meeting
5:30 PM
Interested members are welcome to attend, but please call hosts to let them know beforehand,





October 2024

PONDSIDE Presentation!



Sat, Oct 26, Noon EDT

Syd Mitchell presents!

Enjoy an hour with your favorite Brit!

- How low temps stress Koi Can Koi get hypothermia? Low temps and the immune system How to protect from falling temps Feeding in fall, winter and spring What to monitor in winter
-

Membership Perks!



Individual Memberships

- Get a copy of the K.O.I. Guide
- Pondside lectures are FREE
- 10% discount on Courses!
- 20% discount on EBooks
- Group Buys

Club Memberships

- Unlimited CKK Scholarships,
- 1 Presentation per year to your club
- Pondside lectures are FREE
- Friendship Trophy for your show
- Newsletter Editor gets copy of K.O.I. News and an Article EACH MONTH
- Group Courses at HALF-PRICE

Spike Cover Award for Lifetime Achievement

Winner for 2024 Selected!

Award will be presented in Oct, and all info will be available on the web site.



TIP OF THE MONTH

Do you have a missing or damaged gasket?



Magic Lube can be used as a temporary gasket

- 1 Magic Lube I is Teflon based
- 2 Magic Lube II is Silicon based – best for use in and around Koi ponds
 - o Waterproof, will not wash out
 - o Non-toxic!
 - o Chemical Resistance
 - o Stable temps: -40F to 550F
 - o Sold at Home Improvement and Pool stores, Amazon, etc.
- Use to extend life of O-rings and gaskets, and as a sealant to prevent leakage.
- In a pinch, it can replace a gasket for a few days until a replacement is procured.

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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!!!



New members this month!

Actually, former members (joined 10/2017)
returning to us:

Michael and Diane Kovacic

16735 Scottsdale Road
Riverside CA 92504-9268

Email: gKovacic@roadrunner.com

Cell: 951.515.5417



2024 "FAMILY FEAST" MENU PLANS & SIGN-UPS

We already have 21 members signed up for the **Nov. 24** meeting at **Jerry & Pat Mall's**, but I know that's only the beginning. Check the list below as you're deciding what to bring and yes, changes of mind are okay! Choose a new recipe you want to try (*we're great guinea pigs*), or an old family favorite. **And please let us know you're coming so we have room for everyone at the tables.**

- **Stuffing or Potatoes ~ mashed, yams, cheesy....**

Hanson ~ Mashed; Nyirady ~ Sweet Potatoes

- **Vegetable Dishes ~ all the family favorites....**

Wolf ~ Corn Casserole; Leverett ~ Creamed Corn;

Mathews ~ Squash Casserole;

- **Salads, any kind ~ green, fruit, molded....**

- **Muffins, Rolls, Breads....**

Zoetemelk ~ Hawaiian Rolls;

- **Desserts, any kind and all the favorites!**

- **Other Items, including Appetizers....**

Mall ~ Turkey & Gravy; Milfeld ~ Applesauce

Others signed up to attend: Aguilar, Krause

The sign-up list will be on the registration table again this month. You can also call the Milfelds at **951.780.7395** to **leave a message** of name, number, and a menu choice; or you can email the info to them at

PeggyMilfeld@inlandkoiociety.org

Reminders for November Meeting

We will be voting for koi of the year and pond of the year!! If you are interested in submitting either one or more of your koi or pond to be elected as our koi or pond of the year, please bring a photo of your koi or your pond for everyone to vote on at our November meeting at Pat and Jerry Malls home. **We hope to see you at the November meeting.**

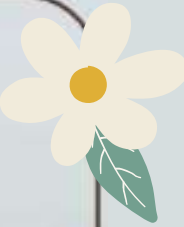
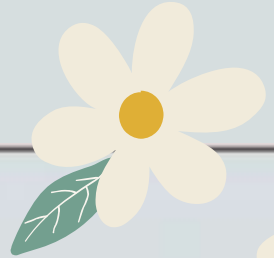
At our November meeting we will be holding elections!! We are looking for you, the club members, to join the board of directors for the club and become more involved with the running of our club. The board meets once a month either at a board member's home for dinner and a meeting, or just before one of our general meetings. **We hope you will take the opportunity to join our board and become more involved in the month-to-month planning of club meetings and events.**





INLAND KOI SOCIETY
5198 ARLINGTON AVE., #146
RIVERSIDE, CA 92504

Return Service Requested



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