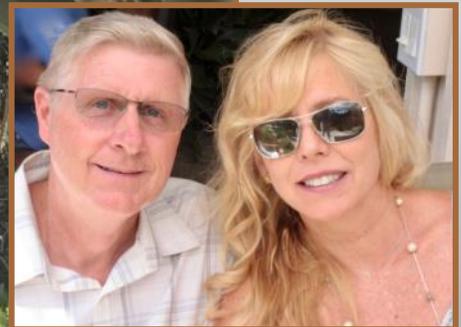
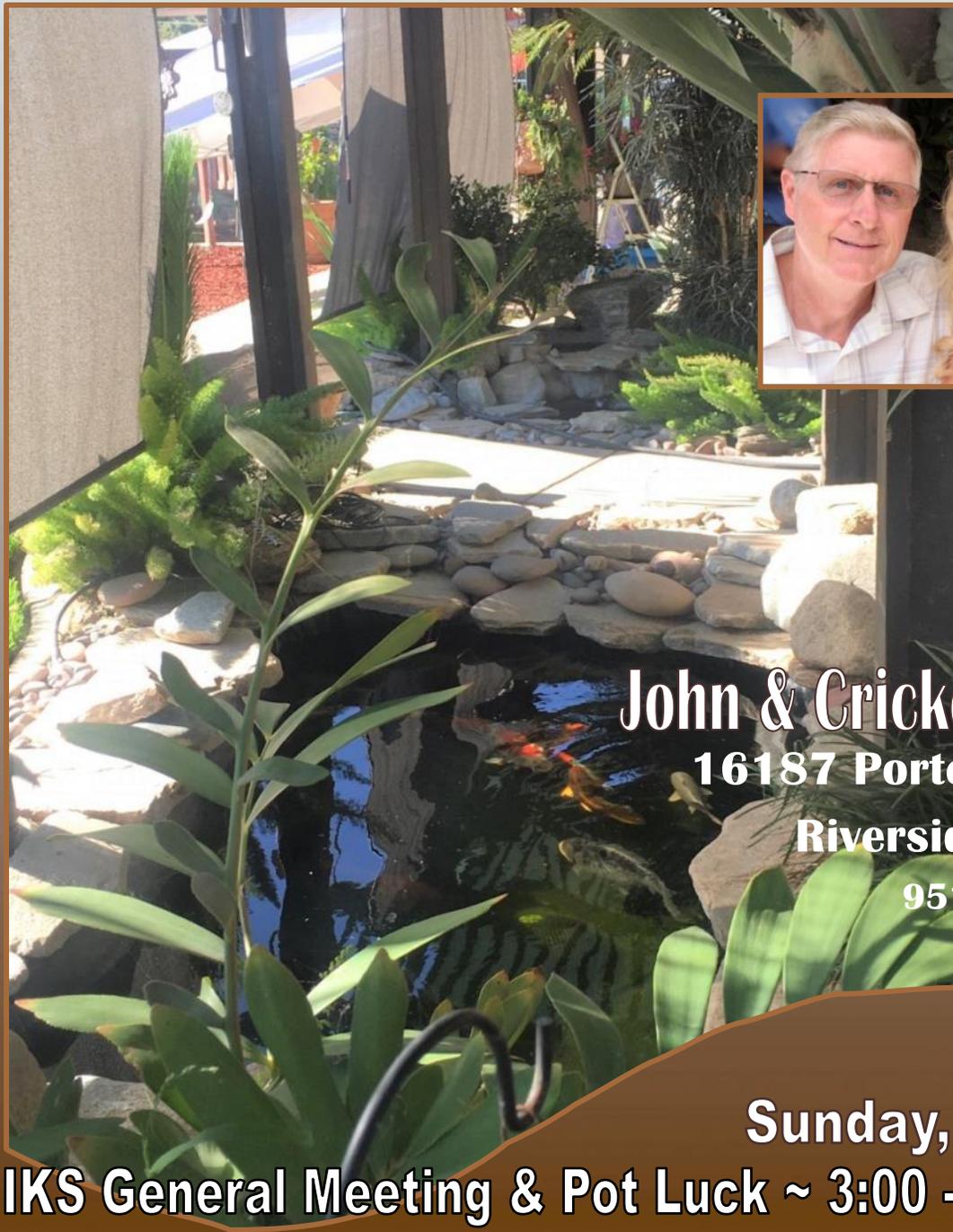


The Inland Koi Connection



THE OFFICIAL
NEWSLETTER
OF IKS
ISSUE 266
JULY
2019



Hosted by

John & Cricket Mouw

16187 Porter Avenue

Riverside 92504

951.776.8323

Sunday, July 28

IKS General Meeting & Pot Luck ~ 3:00 - 6:00 pm

The IKS Board generally meets on the second Sunday evening at 5:00 or 6:00 pm; they share hosting the meetings, providing simple refreshments or a dinner. Members are welcome to attend, but should let the hosts know their intention to do so.

The **July 7** Board meeting, attended by 10 at the Kushners', started at 6pm following dinner.

- **The 6/23 meeting at Aiko Howo's in Redlands:** **Rob Fales** took over to lead the meeting so President Linda could leave early for a conflicting event, and he was the same old humorist we grew to love! The expansion of Aiko's pond was beautiful, and the hidden equipment, under an extension of a covered deck, was unique and convenient in its design. 'Koi Jack' shared details of his feeding and nutrition plans for his koi — call it 'extreme koi feeding' — but it's not practical for most pond owners; on the other hand, with his knowledge of nutrition, his challenges to pay attention to it for the sake of our koi were important reminders that water quality isn't the only vital element of pond/koi health.
- **Membership:** Renewals to date are 61, plus 10 new members, including four at the Auction.
- **Meeting Dates:** Ed has these dates, hosts and speakers confirmed:
 - 28 July ~ **John & Cricket Mouw**, Riverside ~ Speaker Jerry Meyers, KCSD, on koi handling
 - 25 August ~ Planned at the Milfelds', but Peggy will have spinal surgery 8/5 and Nick is reluctant to host that month.
 - *Thank you to **Steve McHan**, who volunteered to host later in the year. Hosts are needed for August forward and into the next year; call Ed Kushner to volunteer. Remember that this your club and always needs places to meet, month by month, year after year!*
- **Koi Rescue:** •QT pool at the Kushners' was recently closed for cleaning after holding the koi from Newport; they had been in such horrible water before rescue, it was deemed best to clean the tank. A temporary tub in the garage holds about 15 very small koi •There is a call to close the pond of a former member who is moving from out of Menifee; the fish are all about 22" in size.
- **Norco HS Pond Project:** This will be a continuing project into the next school year: a few of the students have graduated, but their replacements are ready to take over.
- **No New Business:** Next Board meeting: **Sunday, August 11, at 5pm**, at Brenda Aker's in Corona.

BOARD OF DIRECTORS

- President:** **Linda Kushner**
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- Vice President:** **Ed Kushner** ~ Meeting Sites & Speakers,
Web Liaison ~ Koi Re-Homing
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951.781-3887 ~ larryleverett@inlandkoisociety.org
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951.735.9896 ~ theozoetemelk@inlandkoisociety.org
- Director:** **POSITION OPEN**

IKS HELP LINE

- Koi Health ~ K.O.I. Rep.:** **Spike Cover** ~ 949.855.2371
- AKCA Representative ~ Mac McClain** 951.398.7048
macmcclain@inlandkoisociety.org
- Librarians:** Books & Videos listed on IKS website
Jim & Tess Poyle ~ 951.797.3007
- Database:** **Orville Hanson** ~ 951.682.3107
- Photographer:** **Donise Lei** ~ doniselorene@icloud.com
- Web Master:** **Alecia Everett** ~ ikswbmaster@yahoo.com
- Badges:** **Jack Marrin** ~ 909.792.3603 ~
jackmarrin@inlandkoisociety.org
- Sunshine:** **Francine Hoffman** ~ 951.781.8209
- *When calling our volunteers, you might get a recorded message. Please suggest a time when you're home to receive a return call, or when you would like to call back.*
 - *Remember that phone advice is given based on your input; the ultimate responsibility for treatment remains with you.*
 - *You can call our Librarians to request information on a particular topic and they will bring it for you to the next meeting, or make other arrangements to get it.*



This is the first time John & Cricket Mouw will have hosted an IKS meeting, and we do thank them for volunteering. I was pleased to have them share with me the legend of the pond...

“Once upon a time there was a crippled princess named Cricket. She was sad and alone and very, very bored. She loved being outside.

“On a bright and sunny day Princess Cricket set out from her castle, carrying a hand shovel, and sat down in the dirt and rocks and began to dig. She dug until she had a hole large enough for a 50-gallon tub which she had borrowed from her trusty steed’s barn. She slid it down into the hole, filled it with water and around it with dirt, and placed rocks and pebbles around the water’s edge. She traveled through the kingdom to the magic place, *Home Depot*, to purchase a box filter and pump, perfect for her new barrel pond.

“Soon her boogly-eyed potbelly goldfish were plate size, with white and orange flowing fins shimmering in the water. What beauties she had...until one day when the evil crane came! The Princess’s trusty and beloved dogs roared the alarm to her: “That evil crane is near! Hurry!” they barked. She ran quickly from the castle, trying to shoo away the crane. But he couldn’t fly! He was too heavy because he had gorged himself on her four beauties.



“The evil Mr. Crane began to regurgitate the princess’s beautiful fish, and one by one they flopped on the ground at her feet. Her beauties’ lives had ended so tragically, all because of that awful bird! That day she made a vow never again to have such a thing happen at her castle.

“And that same day, as saddened as she was, the princess began to dig a bigger pond. She sat again in the dirt and rock with her hand shovel and started to dig angrily, thinking of her poor lost beauties.

“Soon Prince John arrived home from the awful Kingdom of Work. Prince John scowled when he saw her, asking, “What are you doing, my Princess Cricket?” and she answered, “I must dig a bigger hole for a bigger pond for my beauties! Their lives were ended today by the Evil Crane.” After Prince John had seen the sadness on Cricket’s face, he took a shovel in hand and began to dig and dig and dig...and soon he had a 4-foot deep and 6’ x 11’ hole. Then together they traveled out of their realm to the magic place, *Home Depot*.



There they purchased a rubber liner, a Tetra canister bio filter, and a submersible pump.

“At home again, they began placing rocks and flowers and shrubs around their new enchanted pond...only to find out that one day their beauties would grow so large that they must have a bigger, better filter and pump to keep the beauties happy from a new evil -- nitrates. Prince and Princess traveled out of the kingdom to *Mystic Koi* and there purchased a Laguna submersible MaxFlow 2,000 and a new Laguna bio filter and air pump to keep their new beauties (one large catfish, four large rescue fish and a couple of fingerlings) “happy ever after” in the enchanted little pond at Mouw Castle. *~the end”*

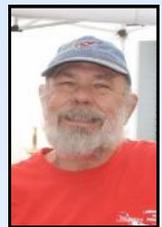
...Until the *next time* -- when the backhoe tractor and bigger equipment comes into play....

The moral of this story is to make sure that your hole is deep enough, you have a cover over your pond, and you have proper filtration. Have fun with this hobby, but join a koi club and learn all the things *not* to do.... In other words, learn the old mantra of IKS, “Build your last pond first!”

And always remember, “*Beauty is in the eye of the beholder*” – be it castle or pond!

~Thank you to Princess Cricket for this story!

We’ll hope for a beautifully clear and cooler day (*dream on, it’s Summmmer*), but we’ll have the EZ-ups ready to provide extra shade! Our speaker will be **Jerry Meyers** of Koi Club San Diego and keeper of “Vagabond Koi” in San Diego County. Jerry will share expert advice on handling koi — he’s ‘handled’ thousands in his years with the vagabonds.— and is one of several of the KCS D team that comes up to support our Auctions and help out as fish handlers.



Let’s see a great turnout! Come with questions, your chairs, and something yummy for the table; the buffet will be set up indoors out of the heat, so look for the back door and come on in!

Note that we’re meeting an hour later again in deference To the midday heat, so see you at 3:00pm!

Directions to 16187 Porter Avenue, Riverside 92504

Obviously, you should find your own best route to Riverside, but these directions take you to the Mouw’s from various directions.

- **From the North or South**, on the **I-215**, exit at **Van Buren** [March Air Base is on east side of the 215] and head West.
 - * Go 5.2 miles, turn **right on Porter Ave.** [at Louie’s Nursery].
 - * It’s **one block on the left** [past Sandy Terrace on the right]; the Mouw’s is the **SW corner house**, on the left at Sage Ave.
 - * Park on either side of Porter or Sage and come on in!
- **From points West** on the **CA-91**, use exit 58 to **Van Buren**: turn left onto Indiana and then right onto Van Buren south.

- *Go 5.9 miles, turn **left on Porter Ave.** [at Louie’s Nursery].
- *One block on left, as above; park on the street.
- **Optionally from the West or North** on **CA-91**, use exit 60, Madison St., and turn south on Madison.
 - *Go a half mile and **turn left onto Victoria Avenue.**
 - *Go one block and **turn right on Washington Street.**
 - *Go 3.8 miles and **turn left onto Van Buren.**
 - *Go a half mile, turn **left on Porter Ave.** [at Louie’s Nursery].
 - * It’s **one block on the left** [past Sandy Terrace on the right]; the Mouw’s is the **SW corner house**, on the left at Sage Ave.
 - * Park on either side of Porter or Sage and come on in!

Virtual Visits to Members' Ponds

A few years ago, we proposed a virtual pond tour to homes of members who couldn't host a meeting or lived in an area awkward to be included in a group of ponds for a public tour. We asked for a series of photos to be made into a PowerPoint presentation so the club could "visit" without invading the property. No takers!

Today it seems it might be easier to do: technology and camera-quality of cell phones eliminates the need to download pictures from a camera. Our phones can do it all now: you can take your photos and just send them along from wherever you are!

That's the idea — keep it simple! Take photos at several angles of your pond, your koi, equipment, and any shots you would like to share of the landscape or house. We won't see anything you don't want us to see, and we won't leave a single footprint anywhere!

Send those photos from your phone to the Newsletter Editor. We'll put them together in PowerPoint for a future presentation and, hopefully, we will be able to tour a few ponds at the same time. If you can attend the meeting, you can talk about your pond as we share the photos, but it would be really helpful if you would also send some notes about your pond's construction and filtration — the kind of information you see in all the pond tour booklets.

We would really like to visit every member's pond, but that isn't always feasible. Help us make it a virtual possibility!

I'm still pushing this...and hoping!



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WELCOME TO OUR NEWEST MEMBERS!

Write these folks into your Directory, seek them out at meetings, and make them welcome! More than fellow members, make them friends!

3/24/2019 ~ Gina Castello ~ Referred by Ed Brown
1000 Fourth Street ~ Calimesa CA 92320
951.522.9962 ~ castello.gina@yahoo.com

3/24/2019 ~ Mike Massaro ~ Referred by Ed Brown
3554 Rawley Street ~ Corona CA 92882
951.283.5247 ~ mike@candylearning.com



4/24/2019 ~ John & April Spurling ~
2663 Sovereign Way ~ Riverside 92506
213.458.2566 (C)
jdspurling@gmail.com

6/01/2019 ~ Craig & Wendee Backstrom ~
1555 Gratton street ~ Riverside CA 92504
951.780.6590 ~ wabcjb1@att.net

6/01/2019 ~ Bryan & Lori Bakstrom ~
~ Riverside CA 92506
~ loribackstrom@gmail.com

6/01/2019 ~ Ryan & Jennifer Cargando ~
~ Riverside CA 92506-5547

6/01/2019 ~ Woody & Melissa Warren ~
8650 Mission Blvd. ~ Riverside CA 92509
909.994.6180 (C) ~ WoodyWarren@sbcglobal.net

New Members: *Our Member Directory includes members' photos. If you haven't been able to attend meetings recently, send me a 'selfie' for the next printing. Maybe have a friend snap several shots for you, and send me your favorite! Couples: keep your heads somewhat close together and side-by-side. Thank you!*

Email photos to Peggy at peggymilfeld@inlandkoiociety.org

We received a quick note from Ed & Louise Broomfield:



A friend in the woods...

The angels have been watching over us. We've been making new friends as we drive the back roads...."

We're into Vacation Season....

Remember that we'd like to see where members have been, especially if they find some awesome ponds while they wander. It's so easy to share...just forward a picture from your phone, and identify the location.

I heard someone is headed to Norway!? We want to see, too!

And for those of you who are "friendly", have you heard that IKS has a Facebook page? I'm not friendly, so I don't even know how to get into it. Somebody check it out and tell us if it's just a rumor, then educate the rest of us!

We arrived early in Redlands to find our gracious hostess, **Aiko Howo**, still futzing around to get ready for everyone. It had not been a great day — or week — for her as she had been nursing her ailing dog, making repeat trips to the vet. He died at 10am this morning, and she was rather weary when we got there. Of course, being Aiko, she perked up to be a charming hostess as soon as she donned her red tee.



In the kitchen was **Frank Painter**, Aiko's pond builder, stripping meat off one of two big pork shoulders he had smoked for 18 hours. I chatted with him long enough to justify samples: *melt-in-your-mouth yum!* Served indoors (it's 92° outside), the tables were laden with chicken, meatballs, pans of the pork roast, assorted salads and a great array of desserts: cookies, pies, pineapple-upside-down cake, cheesecake, and even chocolate-dipped ice cream cones! And **Mary Leever** was truly back among us, with birthday cake!



Rob Fales took over for Linda today, opening with a Q&A:

What do you get when you cross koi with elephants?...Swimming trunks!

Aiko's yard is so full of interesting plants! She has a great collection of succulents and cacti in pots, clustered everywhere. Fruit trees are planted above a retaining wall just beyond the driveway, and waist-high raised beds are full of various veggies. A block-walled enclosure prevents resident tortoises from wandering into the pond. In the back right corner there's an elevated and covered patio built under a canopy of trees; several tables with chairs invite you into the shade.



The pond renovation cost Aiko some garden area, but gave her more deck and more water. In his 'quick 'n' easy' pond talk, Frank noted that Aiko now has a 3,000-gal pond and no visible equipment. That extra deck space opens from the middle on heavy-duty hinges to expose a pressurized bead filter and all the rest, accessed by way of steps into the 'pit.' Aiko's 'nothing fix' became a truly 'big project,' but she loves the results. Rather than commute daily from San Diego, Frank stayed with Aiko for the duration. *Beautiful job!*



Finally the mic was given to '**Koi Jack**' **Chapman**, our guest speaker.

He first noted that he recognized a long fin yellow koi that had belonged to Pete Miles, purchased on one of the IKS trips to Barstow Koi. Jack Chapman got into koi, trained as a KHA, and then became a *Nutrition Geek* and proudly admits to it. From



that frame of reference, he shared his own feeding and nutrition plans for his koi, not to challenge us to do the same, but to give us a few things to think about.

First he asked us to look at the Fat and Protein content of our koi foods, *i.e.*, **read the label!** **Fat Content should be 3 to 10 % — 3% for older koi, up to 10% for the first three years.**

Part of understanding koi nutrition is understanding their physiology: there are no teeth, no stomach, and no stomach acids, so digestion is all in the gut. A 24" koi has a gut about seven feet long, which makes six 180° turns on its way to the anus. **Digestion time is 2-4 hours**, with 4 hours the more popular figure. Water temperature affects the timing: for every 18° temp change, the metabolism time is cut in half or doubled. Optimum is 77°, so **76° to 78° is "happy hour!"** Even so, koi cannot metabolize food with more than 36% Protein; more than that and you're wasting food and money.

As Jack taught, **we get to set our own goals for our koi**; it may be to have a

particular fish in the pond and raise it to perfection. That is the object of Mystic Koi's annual *Grow Out* contest. One year, two weeks ago, Jack bought three koi for the contest, and in that time, applying his 'extreme feeding' regimen, he had these results:

- **Kohaku** ~ 10" to 24" ~ Most Growth [Reserve Grand Champion]
- **Shiro Utsuri** ~ 8" to 22" ~ [Breeders' Choice Award]
- **Sanke** ~ 6" to 13-14"

To accomplish this, he kept the first two koi at 75.5°F and fed them eight times a day, 8am to 6pm, with an auto-feeder. The *Sanke* was kept in the pond with no special treatment and didn't get the growth.

Most people don't concern themselves with what their koi could become, and not caring about the *what*, they don't bother to question *how much*, as in, **How much should I feed?** That gets answered with another question: **How much is the mass (total weight) of all your koi?**

We'll take a serious look at that next month, with weight charts and all. For now, based on mass, for growth you need to feed 1%, 2%, or 3% of total body weight per day. But the simpler answer, the standard response, is to feed **"As much as they can eat in 5 minutes."** And Jack admonished us to use those five minutes to examine your koi carefully for familiarity as much as for injuries. 🐡



Every year, Ed & Louise Broomfield take off for a few months at a time to travel the highways and back roads of America. They visit old friends and favorite places, and explore roads and sights unseen before. They've become confident in leaving their pond for these extended periods of time because they've invested their time in advance to ensure the pond can survive without them.

How about you: Do you worry through the trip that all is well? Do you sabotage your vacation enjoyment because you fear what's happening at home? Consider Ed's advice....

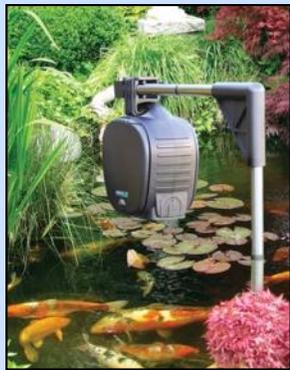
HANDLING A POND WHEN YOU'RE AWAY

by Ed Bromfield, CKK, KHA

Ever worry what to do with your pond when you're away? Unless you never leave home for more than a few days, you will have to confront this scenario some time. Having taken more than 10 trips greater than 30 days, I would like to share how I prepare for these trips.

The first step is to prepare your pond prior to departure by completing the following:

- Completely clean your pond and filtration system. This is necessary as your pond will only receive minimum maintenance while you're away and it's best not to leave any potential problems lurking. (Think Murphy's Law)
- Bring all water parameters as close to ideal as possible. This allows for a greater degree of water parameter variation than if you left with marginal water quality.
- Raise KH level in the pond to 180 ppm. This will eliminate the possibility of most pH crashes. The 180-ppm KH level is the highest recommend level for closed pressurized filters. Otherwise, you could go up to 200 ppm.⁽¹⁾
- Install a metered automatic water shutoff valve on your fresh water inlet. This will prevent a well-meaning pond service from leaving your water running for 24 hours and killing all your koi. (True story!)
- Ensure proper koi nutrition by installing an automatic koi feeder. Be sure to adjust the amount of feed if your incredibly kind neighbor insists on feeding your koi while you're away. For shorter trips, this may not be necessary: koi can survive just fine for 30 days without feeding, even during peak feeding temperatures.⁽²⁾



The second step is to establish a cache of equipment, supplies and services:

It will be very helpful, and sometimes critical, if you can have everything to handle a problem on hand rather than hunting these things down from thousands of miles away. Do not count on your pond service to have everything you need on hand. I recommend the following:

- A pond information sheet which contains
 - Pond capacity in gallons and liters

- List of all pond equipment, including manufacturer names and model numbers
- Pre-calculated dosages for all additives and medications. Do you really trust your pond service or neighbor's math capabilities?
- Adequate supplies of foods, dechlorinator, baking soda, salt, and pond treatments. Exactly which supplies and treatments is controversial and a subject for another discussion.
- Essential back-up pond equipment such as pumps, aerators and UV lights. This equipment can be used and does not have to be an exact match, just something that will work until a permanent fixed can be accomplished.
- Pre-established relationships with a pond equipment supplier, a pond maintenance service, a pond construction company, and a handyman.

Finally, provide pond monitoring during your absence.

It is critical to monitor your pond regularly so that issues can be addressed in a timely manner. Believe me, issues will arise because as soon as you leave, the gremlins move in. I have yet to take a long trip and not have an issue of some sort that needed addressing. I accomplish this in three ways:

- Have someone regularly visualize your pond and koi. My neighbor comes by and checks on my pond daily. She loves to come over and feed the koi. This allows her to notice when something isn't right and notify my pond service. I've also discovered that my koi like her better than they do me.
- Have your pond serviced bimonthly to ensure that water quality and filtration systems are functioning properly. Normally I perform pond maintenance weekly, but I have discovered that water quality is kept within safe levels if performed only twice a month.
- A good option is to have a video system with live surveillance and recording capabilities. This doesn't do much to prevent or respond to incidents, but it does allow you to determine what happened. (Such as when my neighbor called telling me the koi feeder was empty every day. When we reviewed the surveillance video, I was able to determine that a raccoon was getting into the feeder. This was an easy fix: the pond service just raised the feeder six inches.)



I hope this article provided you with some guidelines on how to reduce stress and keep your pond safe and thriving when you're away. If you would like more information on how to provide a greater degree of pond survivability, I recommend reading in Spike Cover's S.A.F.E. Pond Limits, available at <https://koiorganisationinternational.org>

References:

- (1) Meck – Pond Water Quality
- (2) Strange – How and Why of Koi Nutrition

IKS is very much a social, or family-style club, with most people attending as couples, and sometimes with children. But I have often wondered, who is the koi keeper in your family? Our single members are obviously the keepers of their ponds, yet among the couples, I tend to believe the most knowledgeable one is the man of the house. He it is who tends to have the greater technical and mechanical understanding to manage and maintain a successful pond.

Having a plan for the care of your pond while you travel is one issue we all face at sometime, I suppose, but what happens when only the pond keeper goes away? Surely any spouse should be able to go out and feed the fish morning and night, or as often as the season and your feeding plan require. How long is 'too long' for the keeper to be gone before it becomes risky?

We found out this January that overnight can do great damage! You see, Nick has never 'trained' me to take care of the pond. I have fairly good head knowledge of the necessary systems and their functioning. After all, I've been listening to all the speakers, taking notes, doing any necessary research, and then writing about every topic for a dozen years or more. And I've described the plumbing and filtration, and explained schematics of every pond we've ever shared on a Pond Tour. But the practical application of all that? "Not my job!"

Every January, Nick has spent a week zigzagging across the Texas-Mexico border with POWER Ministry, and I have been content to feed the koi once or twice a day as needed. Usually it has simply been a matter of checking the pond a couple of times a day, with the water still too cold for regular feeding. No problem, right? But *this* year....

Nick had been having some trouble with a cranky auto-fill device, so before he left for the week he gave me a crash course in what to do if the water level dropped to a

certain point: close this valve, open that, let it reset itself to the proper level, and then open and close the valves. Got it. Of course, I could talk with him every night on the US side where they slept, and I could text all day, as long as they had service in whatever remote area they were working.

And sure enough, a few days in and I had to play with the valves. You'd think there wouldn't be a problem because we were having five days straight of rain! I let him know what I was doing, got it leveled out, and went to bed, confident all should be good until morning. Imaging my shock, then, to find several of our koi with their dorsal fins out of water, and the rest huddling 30" below the base of the return waterfall. Overnight I had let the pond drain out two and a half feet down!

How? Why? All because there's an on-off direction for the valve handle, but there's also a lock position that has to be securely set or it remains partially open. Open enough to drain the pond overnight!

Not able to reach Nick, I called Larry Leverett in tears, and he came over immediately. Helped me set up hoses to refill the pond — aiming them at the pond wall to get good spray and aeration — and adding dechlor gradually. Sent photos to Nick....he was so gracious about it! It hurts to think I could have killed all our koi in the process, but shows their resilience, too. We should have been draining the pool to resurface it, not the pond!

The moral of *this story* is that the non-keeper needs to know more than we think we do about how our pond system works. That, or have an emergency plan and a good friend who does know the pond so our fish aren't left totally at the mercy of our ignorance.

~ Peggy Milfeld



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Pictures of new koi
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NEW ARRIVALS page.

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1st time customers

Valid w/coupon only • Not valid w/other offers

Inside Your Fishes' Food - Carb Loading

Beyond protein and fats, *carbohydrates* are the last of the macronutrients in koi foods. Carbs get a bad rap from many diets for humans and other pets, but what do they contribute to koi health?

Carbs may be a primary energy source, but unfortunately, for most fish, carbohydrates are not well processed or absorbed. Sure, they need some for basic energy requirements, but a moderate to high-carb diet is not good for most fish: high carbohydrate levels in your koi's diet can affect liver function.

Where do fish get carbs?

In the wild, most fish get enough carbohydrates from the foods they eat, be they plants, for herbivores, or from other fish, like carnivores. Captive, pet fish get carbs from their pelleted and flaked diets. Most commercial brands have a good formulation for carb levels in fish. What you have to be aware of is TREATS.

Most fish "treats" are mostly carbs. This includes:

- Watermelon, cantaloupe and other melons

- Citrus fruit such as oranges
- Sweet potatoes
- Green peas

How often can fish get these delicious treats?

For outdoor ponds with seasonal temperatures, treats can only be fed in the summers, when the water temperatures are at their warmest. Even at these temperatures, carb-rich treats should only be fed **once a week at most**.

And not all fish will like the same treats! If you want to give your koi something special, experiment and figure out what they prefer.

Too Many Treats

If you feed your fish too many carb-rich treats, you can set them up for obesity and liver failure. Like all other pets, save treats for special occasions. [*You can tell your fish it's all my fault.*]

Few herbivorous fish species require more carbs than their omnivorous and carnivorous friends!

“Good nutrition is essential to healthy fish”



Advanced Filtration
NEW COURSE! – August 2019



Author & Instructor: Syd Mitchell

Topics to Include:

- Filtration theories and types
- Pumps & air lifts
- Fishless filter cycling
- Nitrate and phosphate control

2019 CKK Grads

- Jay Avery
- Bryan Bailey
- Jayne Dator-Freeman
- Heather Hale
- Lisa Herrick
- Jim & Claudia Nice
- Kitty Swoboda
- Marc Tilkin

Blog Posts
Continually Updated
650 posts now available

K.O.I. Sponsored Research

- OSU finds show disinfecting procedures effective - website article coming soon
- Clubs now preparing to support K.O.I. sponsored research

K.O.I. Member, CKK & Student Specials

References
Want to be believable? Provide references!
Email Spike at scover1@cox.net
Spike will send the best reference(s) he can find for your needs.

Group Buys
4 currently available for Members, CKKs, Students & Instructors
Special CKK-only deals 2-phenoxyethanol coming soon
Email Karen at Pattist@snet.net for group buy inquiries

<http://fishvet.org>

How do you find a veterinarian specializing in fish in your area? In the States, try the website above and enter your zip code and how many miles you're willing to go to find help. Names of vets, addresses, and the kinds of fish in which they specialize will appear.

Make an Offer...

Are you in the planning stages of building a pond and looking for parts? *Keri Rogelet*, one of our former members, is moving north with her job and has just closed down her pond. Sorting and packing (*I hate that thought!*), she found and offers for sale the following:

- a new 10'x20' pond liner, still in the box
- a motor sequence 2000gph pump with leaf basket, *Dragon* series
- a transformer for a 75-watt UV by *Aqua UltraViolet*
- a pond vac
- an 8'x12' above-ground pool

If you have an interest in any of these items, give Keri a call at **951.529.5049** to get more details and make an offer. Note that Keri is moving on July 25th — packing the moving van on the 24th — so any arrangements must be made no later than the 24th. Additionally, she has to be gone Friday-Sunday, the 19th-21st.

Wishing you wonderful new adventures in your move, Keri! Blessings!



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- . FOR FRESH OR SALT WATER FISH



- . HIGH IN PROTEIN FOR RAPID GROWTH
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CCKS KOI SOCIETY
41ST ANNUAL KOI SHOW
SEPTEMBER 28-29, 2019

WOODWARD PARK GROUP ACTIVITY AREA
 114 W. AUDUBON DRIVE, FRESNO, CA 93720
 (Next to *Shinzen Friendship Garden* in the park)

NEW LOCATION free admission open to the public

- Koi and Long Fin Competition Judging
- Pond & Koi Vendors
- Raffle & Silent Auction
- Koi & Pond Health Information

SATURDAY 9:00 AM - 4:00 PM

- ▶ Raffle & Silent Auction
- ▶ Judging Starts - 10 AM
- ▶ Awards Banquet - 5:00 PM
 Manhattan Steakhouse & Bar
 1731 Bullard Ave., Fresno, CA 93711

SUNDAY 9:00 AM - 3:00 PM

- ▶ Raffle Drawing - 12:30 PM
- ▶ Silent Auction Winners Announced - 1 PM

RAFFLE PRIZES

- \$250 VISA GIFT CARD
- \$100 VISA GIFT CARD
- APPLE AIR PODS

Exhibitors & Banquet, contact: Rosimeri Tran, CCKS Secretary, 559-970-8508, cencalkoi@gmail.com
 For Sponsorships, contact CCKS President & Show Chair: Richele Kleiser 559-312-3892
 CCKS is a 501c-3 Non-profit Organization | cencalkoi.com



Bakersfield 20th Annual Koi Show



October 18-20, 2019

JULY	4	
	7	IKS BOARD MEETING ~5pm / Hosts: Ed & Linda Kushner , 1556 Vandagriff Way, Corona 92883 / 951.520.0092 / Interested Members are welcome; call to let hosts know.
	12	Orange County Fair ~ July 12 thru August 11 ~ OC Fair & Event Center, 88 Fair Dr. Costa Mesa / W-F, Noon-Midnight; Sat/Sun, 11am-Midnight; M-T, closed / buy tickets thru Ticketmaster.com / children 5 and under, free; parking \$10. 
AUG	28	IKS POTLUCK MEETING ~ 3-6pm / Hosts: John & Cricket Mow , 16187 Porter Ave., Riverside 92504 / 951.776.8323 / Speaker: TBA
	11	IKS BOARD MEETING ~5pm / Host: Brenda Aker , 2375 Chateaux Way, Corona 92882 / 951.316.0263 / Interested Members are welcome to attend, but please call to let the host know.
	25	IKS POTLUCK MEETING ~ 3-6pm / Hosts and Speaker TBA
SEP	08	IKS BOARD MEETING ~5pm / Location to be determined / Interested Members are welcome to attend, but please call to let the host know.
	29	IKS POTLUCK MEETING ~ 2-5pm / Hosts and Speaker TBA
OCT	13	IKS BOARD MEETING ~5pm / Host Larry Leverett / Interested Members are welcome to attend, but please call to let the host know.
	27	IKS POTLUCK MEETING ~ 2-5pm / Hosts and Speaker TBA
NOV	10	IKS BOARD MEETING ~5pm / Location to be determined / Interested Members are welcome to attend, but please call to let the host know.
	24	<i>Note: this is the 3rd Sunday, one week earlier....</i> IKS POTLUCK MEETING & KOI RACES — 2-5pm / Hosted by Jerry & Pat Mall ~ 43024 Via Las Rocas, Temecula 92590 ~ 951.506.4814 ~ Annual Feast, Elections, 2019 Dues are due, Koi Races! ~ IKS will provide the turkey, members sign up to bring all the traditional sides!

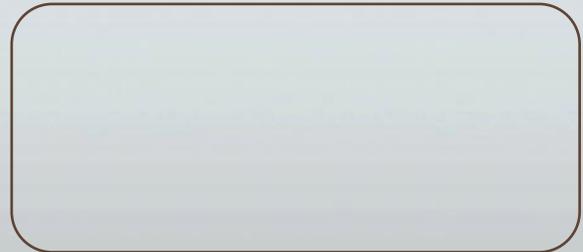
Reminder!

It's time to start thinking about election of officers and directors again. In one sense, EVERY position is OPEN! We need more members to participate in the month-to-month running of IKS. Who will come on board for next year?



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

Return Service Requested



Visit our website: www.inlandkoisociety.org