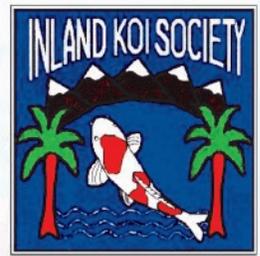
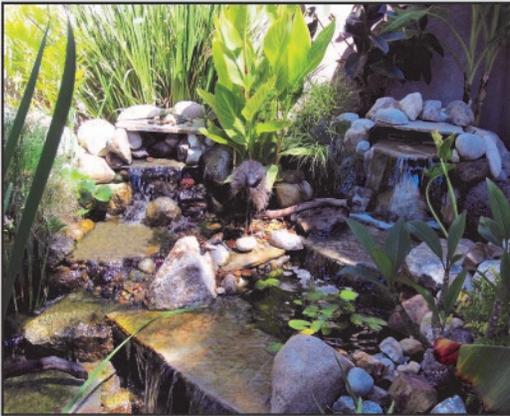


The Inland Koi Connection



THE OFFICIAL
NEWSLETTER
OF IKS
ISSUE 193
JULY 2012



**SUNDAY, JULY 22,
2012 @ 2-5PM
IKS POTLUCK &
GENERAL MEETING
at
39635 Calle San Clemente
Murrieta, CA 92562
(951) 970-8351**



**The Sierra Family:
Miguel, Ricky, and Kelly**





Our meeting in June was attended by 58 IKS members and guests and was hosted by Steve and Laura Nyirady in Yucaipa. The weather was perfect at their 3,000-foot elevation. A good time was had by all in attendance. It was interesting to see how they built the pond. The previous owner had started a swimming pool but never completed it. When the Nyiradys bought the property; Steve envisioned completing the pool as a koi pond.

Mark Whalen gave a presentation about improving the quality of koi ponds and koi, and his presentation was enjoyed by everyone. Mark, who is a member of our IKS, is willing to do other presentations but would like suggestions from the members as to what subjects they are interested in. When you attend the monthly general meeting, please leave a note at the sign-in table naming topics on which you would like more information presented in the future.

We also had a presentation by Dr. Bob Hildreth from Murrieta on an outbreak of Koi Herpes Virus (KHV) that is starting to infect some ponds. External signs of KHV include gill mottling with red and white patches, bleeding gills, sunken eyes, pale patches or blisters on the skin. New fish that are to be added to your pond should be isolated in a quarantine tank for a period of at least 30 days, with the water temperature raised to 72° to look for the virus. The higher temperature stresses the fish and may cause the virus to become active. Also remember to disinfect the equipment between the quarantine tank and your pond. The easiest method is to leave the equipment a minimum of 48 hours in the sunlight; otherwise, use disinfectant.

I am looking forward to this month's meeting in Murrieta and will be excited to see you all there.

Dennis Lynaugh

Dennis Lynaugh - IKS President

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Our hosts this month are Miguel and Kelly Sierra and son Ricky. They have a picturesque home in Murrieta with a shaded and very relaxing back yard, which they are opening to our club members this month. They have lived in this home for twelve years and Miguel says every year they add something to the house or yard.

When they met, both were working for different painting contractors that merged together; eventually they married and began their own company. The business, Shades of Distinction, is bonded and insured, employs three to five people, and is situated locally to serve the Murrieta - Temecula area. Working locally, their commute time is usually five to fifteen miles. They always have projects; they will work on a house two or three days, and then move on to another for several days. They love meeting people, seeing different designs in yards, or experiencing new color combinations, so they are continually busy and totally enjoy the work they share. The inside of their home is beautifully decorated, with the painting and crown molding all done by Miguel. Kelly says he is very detail oriented.

Miguel started his fish hobby with a 10-gallon aquarium and a red-tail shark which lasted for about ten years. He slowly progressed to 45-gallon tank, then, when opportunity presented itself, he moved on to a 100-gallon tank. Moving outside, he built a 300-gallon water garden. He started with goldfish, but then saw the koi at a dealer and instantly fell in love with all the varieties. He and Kelly picked out a few, and they started to grow. They experienced predators like cats and big, white, long-legged birds (herons or egrets). Miguel felt they had become abundant, partially because of the shallow depth. One morning, about 3:00 am, they heard water splashing and Miguel came down with a flashlight. The light hit the shining, beady eyes of a mother and two baby raccoons devouring his beautiful koi. Kelly said after Miguel saw the scales on the rocks where the raccoon had made a smorgasbord of the fish, he hollered, "That's it! I'm digging deeper!" He decided it was time to expand his pond, thus the 1200-gallon, four-foot deep, tropical pond he has now.

Miguel was a fish handler at our last koi auction, which gave him a very close look at all the koi going through the auction, and he came home with a beauty. His pond has about ten koi. It is a liner pond with some beautiful rock work and waterfalls that Miguel did himself. He says he got advice from Inland Koi and Harrison's Koi Farm. He also had help from Mystic Koi and our club members in designing the pond, plumbing and filters. There are a bottom drain and skimmer that merge into the main pump. From there, the water goes through a 40-watt UV to a bead filter, then is further filtered through two Savio filter waterfalls and another waterfall back to the pond. With their Tiki hut gazebo beside the pond, Kelly says it feels like Hawaii, which is where they went on their honeymoon.

The Sierras love to travel and have a 28' travel trailer. They just got back from Utah, where they hiked three miles straight up a mountain (even Ricky made it up there!) They went north to South Dakota to see the Black Hills and Badlands National Park, which are full of American history, natural beauty, and the legends of the old west. This historic region is home to Mount Rushmore. Other stops were Yellowstone National Park and the Grand Canyon. For the last five years they have been visiting a lot of national parks.

In the dirt of South Dakota Ricky, their 6-year-old son, found a bone and swears it is a dinosaur bone; I'm sure he is right.... Ricky loves the "Angry Bird" group and also bugs, creepy-crawly things, and all insects. Miguel said Ricky is totally fascinated and constantly looking for bugs. Kelly looks for magnets wherever they travel and has her refrigerator almost covered top to bottom with her collection. Miguel looks for crosses and lizards during their travels and has about twenty of each, displaying them prominently in the yard.

Miguel is pleased with his pond. He felt the water garden was pleasant but, after the raccoon gluttony about a year and half ago when he dug the 1,200-gallon pond, he didn't make the pond bigger because he didn't want to overpower

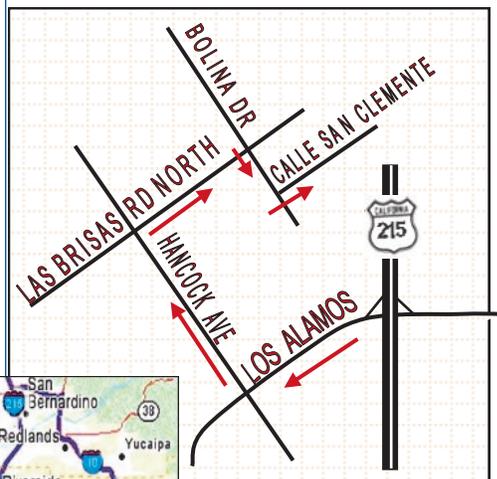
the yard or his patio. However, he also says if one day they leave this home and move to another one, he doesn't care about the house; he just wants to see the back yard so he can build a BIGGER pond for more koi! **Don't we ALL know that story.** Come for a relaxing and enjoyable day with old friends, or make new ones. Sign in at the front table, fill in the question sheet if you have any questions, pick up your name badge if you haven't received it yet, and please bring a refreshment to share (we had a royally good potluck last month!) and a chair to sit comfortably. We'll be looking for you!

*Larry and Debby Leverett, IKS Editors
Peggy Milfeld, Secretary & Editor Assistant*

Our guest speaker will be **Shawn McHenry** from Mystic Koi & Water Gardens. Their address is 1250 West Arrow Highway, Upland, CA 91786 / (909) 920-3767. If you have been at Mystic Koi, you probably know Shawn, Sandy and Bill pretty well.



Mystic Koi is one of our favorite koi dealers. Plus a great water garden plant store, plenty of equipment, lots of books, and always experts when help is needed. Have Shawn McHenry from **Mystic Koi** hunt down the koi of your dreams this fall when he travels to Japan.



Travel Interstate 215 to Murrieta.

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My, what a gorgeous day to spend around a shady pond! **Steve & Laura Nyirady** have a beautiful home at the southeastern corner of Yucaipa, with plenty of space for the club's four EZ-ups to make a 20x20-foot outdoor room, and a spacious shaded deck where **Debby Leverett** set up the potluck buffet. We had an abundance of main dishes, sides and desserts to tempt every palate, and a few for which recipes would be appreciated! [*Were they pickled zucchini? And was that quinoa with finely chopped parsley? Will you share the recipes?*]

Attendance was high (58) considering the drive to the farthest reaches of Yucaipa, right on the border beyond Beaumont and Cherry Valley, farther even than the Edward-Dean Museum. We had quite a few visitors and first-timers with us, including **Patrick Busby** of Riverside, winner of the pondless water feature from the Pond Tour drawing and our newest member; **Aiko Howo** of Redlands, who promptly joined; and **Richard & DeeDee Henry** of Norco, who met instant friends in the **Zoetemelks**. And it was thrilling to see **Pamela Holtorf**, even for the few minutes she could stay to say "hi!" en route elsewhere with family. The gentle breezes that cooled us most of the afternoon got rather frisky at times, prompting **Donald Grimm**, a visiting local, to comment, "That's why we call it *Blowmont!*"

Relaxing after lunch, Dennis introduced our new members. The Henrys have been following our club for about ten years and finally, with three ponds going, decided to join. The Reins, all the way from Garden Grove, also have a pond; they've been battling string algae and think they beat it this year. **Len & Jessie Knapp** are really old-timers: formerly of San Bernardino, they were hosts on our 2001 pond tour but got 'smoked out' by the fires that ravaged the area. Relocated in Redlands, they are glad to be back, and even hosted again on this year's tour.

Keeping successful at keeping koi was the topic of our speaker, **Mark Whalen**, who shared "**Tips for the Experienced Koi Keeper**." Mark runs in a circle of very experienced ponders—we visited his beautiful Orange County pond on our 2008 bus trip—yet in the last six months three friends have had major problems or losses. One lost twenty 30-inch koi, one at a time; hydrogen sulfide had built up in the mulm in the bottom and was slowly killing them off. The second added three new koi to his pond that had been out of quarantine for six months; *Costia*, a microscopic parasite, soon attacked the whole pond. The third had a total wipe-out, with no explanation. What causes a seemingly healthy system suddenly to turn on its keeper?

What Mark seemed to suggest is that we forget some of the basics; we get busy or overly confident or even complacent, and I thought that this hobby is, after all, **husbandry** — the care of a household — in this case a scientific control and management of a specific branch of the animal kingdom. So to get back to the basics, he suggested we visit a koi show to see what others consider good, then critically analyze our systems to see what needs to be done to perfect our own koi. Granted the big prizes always go to the red and white, or the red, white and black, but beyond that, look at how the fish move, their skin condition, even their size. Home environment — read *water quality* — and interpersonal relationships (they are social creatures) are key factors in caring for our koi "house".

How we stock our ponds is critical: the most rapid growth comes in the first 18-24 months, when koi reach 15" to 20" and increase ammonia production eight to 10-fold. The number of koi affects oxygen levels and water quality...and health. You are safer with ten 18" koi in a 1500-gallon pond than 20 the same size; Mark has a 13,000-gallon pond with only 13 fish. The bigger the fish, the greater the impact on water quality. So consider carefully your pond size before adding more, as overload can break the system. Size and numbers... how about source? Purchase from auctions, breeders or dealers, or spawn your own? Obviously the cheapest, if you don't care what you get, is

spawning, but consider the by-products of a spawn: damage to the female, injuries, broken scales and skin, exhaustion, and temporary destruction of the filter; the pond looks like a bubble bath (but doesn't smell like it!) and, although the koi eat most of the eggs, 200 to 1000 may survive to add to the burden on your filtration. More work and the temptation to "see what they become"!

Alternately, buying can't be worse, can it? The stress of 50-70 small koi in one bag for 24 hours or more, shipped halfway around the world... Yes, most do survive without adverse effects, but most fish shipped in will arrive with parasites, which can bring on bacterial infection, both contagious in the pond. And imported koi are especially prone to breaking down with infections weeks after they are received, due simply to overseas disease problems and the enormous stress they face in transport. There are signs and symptoms, but most noticeable is jumping or 'flashing'; and unlike puppies, that doesn't mean they're happy. Two **basic rules** scream for attention: **CHANGE WATER**, and **QUARANTINE!** The rule of thumb is to make a 10-15% water change every week. Make it easy on yourself by knowing the depth of your pond, and you can just eyeball how much water has to be removed : at 40 inches, every 4" is 10%, 6" is 15%. How much could Mark say about quarantining? New fish are probably the biggest danger you face. If they are from a dealer, they've been exposed to other fish; if from an auction, you have no history at all! Even then, he recommends scoping fish before putting them in the pond.

Lastly, Mark discussed **add-ons**. You start with a **big filter**, so we asked for a definition of 'big.' In his mind, if the filter says it's good for so many gallons, halve that; really, they should be rated for how many/how much fish they will support, be that in inches or pounds, but not really in numbers. Then go for a **foam fractionator** to remove foam and particulates, which will leave you with less bacteria. Then the more obvious, **pre-filters** to collect solids first, and **UV lights**. Finally, invest in good **test kits** and make it a habit, monthly or more frequently, to test pH,

ammonia and nitrates. A lively Q & A session followed, with everyone appreciating Mark's straightforward approach and his humor.

Earlier our host had been busy, but now Steve was available to talk about his three wonderful ponds. **Steve & Laura Nyirady** joined IKS years ago, then dropped out to work on their landscape; rejoining last September, he said that now they see what they were missing the last five years. As beautiful as the ponds were at the meeting, Steve admitted to the stress he put himself through in the last week. On Monday he had changed something in his system and suddenly he had pea soup with only 40w of UV to clean 3700 gallons of water. He installed a 100w Evolution Aqua UV, switching from 220v to 110v, resulting in 87w; with that and lots of straining and filtering, the pond recovered quickly, and the landscape probably appreciated the extra watering — their waste water flows through canals to the garden. Agreeing with Mark Whelan, Steve prefers to err on the side of fewer koi.

Next on the agenda was a special visit from **Robert "Doc" Hildreth, DVM, Aquatic Vet Services**, who specializes in koi. Bob had asked permission to spend 10-15 minutes giving us an update on the current state of KHV, its prevalence, symptoms, treatment, and above all, its prevention. See [page 8](#) for a summary. **Ed Kushner** announced he has 10 rescue koi, 8" to 24", available for adoption; call him! **Nick Milfeld** called the Raffle, which included koi posters and a Japanese wall calendar (you know, 17"x28", with each page a huge photo of a grand champion and an all-but-useless token calendar of the month), a net, a 40w UV and, from **Tom & Zuma Ross**, several bags of koi food. We saw **Spike Cover** yearning for that UV, and by golly, he bought enough tickets to win it on the last draw! At the very last, anyone interested was invited to stay and watch Doc Hildreth in action, as he checked the Nyirady's koi in quarantine and surgically removed a tumor from one.

~Submitted by Peggy Milfeld, milfeld@msn.com (for those recipes, please!)

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Did You Know; Speaking of KHV...

Closer to home, the Milfelds won a beautiful koi at a California AKCA Seminar, and another member offered to quarantine it for them; it was evidently carrying the virus and quickly destroyed all the fish in the tank. Since then, koi from one pond are not mixed with those from another pond at shows: the risk is too great.

Bob Hildreth, DVM, has owned a small animal veterinary hospital, but by 2005 it was taking so much of his time he was unable to take on new fish clients. Bob sold the hospital in 2008, and 'jumped back into the pond' especially in the past three years. He has seen over 1500 fish cases to date, mostly koi ponds. Bob was the AKCA lab veterinarian years ago, speaking at the annual seminars; he has lectured to many clubs and societies, most recently at the American Veterinary Medicine Conference. Bob has also been a consultant for Novartis on their new vaccine, CAVOY. He recently wrote an article on the overuse of antibiotics, which was published in KOI USA this spring.

Today he hails from La Cresta Veterinary Services and Aquatic Vet Services, where he has earned an impeccable reputation for his "outside the norm" care and treatment. He came in a bit late as he had been tied up with several surgeries earlier, and immediately congratulated our club on its size and meeting format, and praised the **Nyiradys** on their three-pond design — an excellent model!

Thought for a day:

"Koi" in Japanese means love. Giving a koi to someone in Japan is similar to giving a special person a flower in the west. With the proper care, koi can live as long as 60 or 70 years.

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BEKKO (Bek-Ho)

About 30 years ago, when koi keeping began to take off outside of Japan, the **Bekko** variety was quite fashionable. But like most fads, the popularity of this koi diminished over time and nowadays, the breed is quite underrepresented at most shows. Though they may be hard to find, good specimens are truly stunning in their simplicity.

What to look for in Bekko...

SHIRO BEKKO

Out of the three types of koi that are recognized as Bekko, only one - the **Shiro Bekko** - is widely known. This is a Sanke derivative, and as the Shiro Utsuri is a Showa derivative without the hi, Shiro Bekko are Sanke without any hi (red) markings. Although they are still produced from parent fish of the same variety, they are just as likely to be seen from the spawning of Sanke, especially Tancho Sanke. Bear in mind that any hi at all on a Shiro Bekko, even on the lips, technically makes it a Sanke.

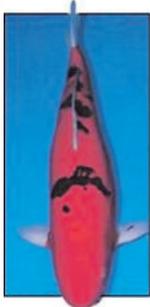


The sumi (black) on **Shiro Bekko** has evolved fashionably in line with that of Sanke. Ten years ago, examples would have had a fairly heavy complement of tortoiseshell dappling, whereas today sumi tends to be more sparsely distributed in smaller, yet balanced patches. It should be confined to the area above the lateral line, on the top side of the koi.

The judging standard now permits a little sumi on the head, as in Sanke, but the best examples have a clear white face, with the black markings beginning at the shoulder. A commonly seen default is a yellowish head, which may or may not clear as the koi ages. Like Kohaku and Sanke, the eyes are usually blue and the skin should be an even snowy white. Sumi patterning need not be symmetrical, but should be balanced overall. If the sumi is confined to one side of the koi, the effect is not pleasing. Avoid Bekko with too much sumi on the caudal peduncle: ideally, as in Kohaku, there should be an area of white at the junction of body and tail fin. Shiro Bekko finnage can either be white or striped with sumi, similar to that of Sanke.

AKA BEKKO

Aka Bekko, never to be referred to as Hi Bekko, are red koi with Bekko sumi markings. Ideally, the body of Aka Bekko should be a scarlet red hi, overlain with deep sumi and offset with pure white or clear finnage, altogether creating a rather striking effect.



The only koi likely to be confused with Aka Bekko are Aka Sanke; the singular difference being that Aka Sanke show white areas on the body when viewed from above.

Aka Bekko are allowed some hi in the finnage, which tends to appear in blotches rather than stripes, although pure white pectoral fins are most pleasing.

KI BEKKO

Ki Bekko are the rarest koi in the group, and sport a lemon-yellow body overlain with sumi. They are not a variety deliberately spawned, but may arise from Shiro Bekko, Kigo or Sanke crosses. Curiously, the metallic equivalent of a Ki Bekko (known as a Tora, or Tiger, Ogon) is quite commonly seen.



~ Blackwater Creek Koi Farms, Inc.

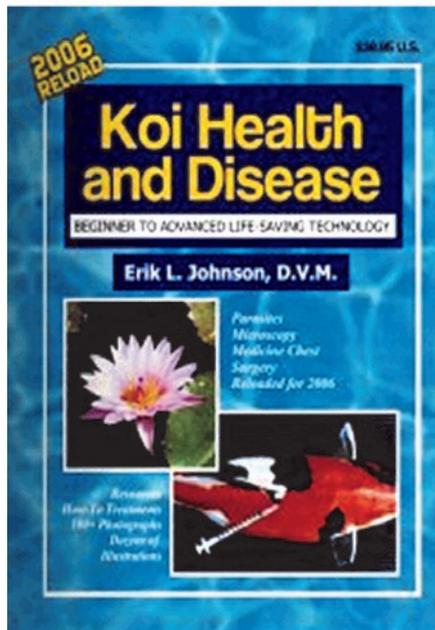
WHAT TO DO WHEN YOU WANT TO PUT NEW PLANTS IN YOUR KOI POND

To reduce the risk of adding disease-causing organisms to your pond, you can try the following when adding plant material:

1. **WEARING GLOVES and PROPER EYE PROTECTION, and with NO WIND BLOWING**, add one level teaspoon of potassium permanganate to 12 gallons of water. This will be a very deep purple color and will stain anything it's left on, but it's easy to remove if you rinse it off immediately.
2. Remove any dead or dying plant material and rinse off any remaining planting soil, then completely submerge plants for a full 30 seconds. **Remember the gloves or you'll have purple hands.** The solution can cause burns and it's a known carcinogen.
3. Remove the plants and set them in full shade until roots are only damp — don't let roots dry out.
4. Put plants in another 12 gallons of water mixed with one cup of hydrogen peroxide; soak for one (1) hour.
5. Add your new plants to your pond.



~Courtesy of r/koi jack, San Diego



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ist's bookshelf, but check it out first in the IKS Library!

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We had a surprise speaker at our last meeting in the person of **Robert Hildreth, DVM**, better known as Doc Hildreth. An avid fish vet for 16-plus years, Bob is also an experienced koi keeper, mentored by the best in SoCal: Bob Spindola, Burt Ballou, Andy Moo, Ben Plonski... His aquaculture training is from UC Davis, LSU, and Texas A&M, and he started seeing koi in 1995. Bob had asked permission to present an update on Koi Herpes Virus (KHS) in Southern California.

Only a handful of our members would claim to have had experience with KHV, and those would be the guys who attended the 2003 Seminar in Atlanta, Georgia, and became known as "Charlie's Angels." The Sunday morning Pond Tour faced a possible drop-out when Charlie & Brenda Atwell's 67 koi started dying off on Friday afternoon. They were given great advice, but they needed manpower. Tom Graham grabbed Jack Marrin and former AKCA Chairman Larry Leverett, and they in turn enlisted Bob Walters and Nick Milfeld, as well as a handful of other SoCal hobbyists, and they all headed to the Atwells' home. Hours later they had rigged a quarantine tank — a show tank wrapped in plastic, complete with filter system and heater — and had transferred the remaining 12 koi to it; only nine survived. The pond remained on the Pond Tour as a sad lesson for all of us of what can happen when KHV is introduced to a pond....

Ever since that event, we have warned and watched to prevent serious outbreaks here. KHV was first identified in England in 1998; soon it was confirmed in Israel's food carp and koi production. It has spread everywhere except Australia, which, as a relatively isolated island, has been able to keep it out. A viral disease comparable to *parvovirus* in dogs, KHV is now considered endemic⁽¹⁾ in the USA, with upwards of 90% mortality in an outbreak. At present, KHV is not a reportable disease in any state, although vets have pushed to make it so. A Texas outbreak a few years ago destroyed nine ponds; it moved here and survived quietly for two years. But now, since February of this year, Doc Hildreth has seen nine positive cases in his practice, which is mostly in Orange and LA counties.

So, how do you know your koi have it, and what do you do about it? The signs are often dramatic: massive mortality follows non-specific symptoms that escalate rapidly. Pay special attention to koi that remain near the surface swimming lethargically; that exhibit respiratory distress; that have gill abscesses, bleeding, or big white patches on normally deep maroon gills; that have sunken eyes or pale patches of blistered skin; or that seem uncoordinated in their swimming. These are all signs of active KHV, which seems to spread as most herpes viruses: by direct contact with infected fish, or with fluids from infected fish, and or with water or mud from infected systems. And once exposed to the virus, a koi will become a carrier, with no cure in sight.

In any suspected case, you should seek help from a specialist and or a diagnostic lab. The most direct test to demonstrate a viral infection is a PCR test (i.e., growing the virus in a culture), and an answer can be found within a week. The PCR is most useful when the virus is present in large numbers, as in a KHV outbreak — when fish are sick and dying and a week is too long to wait — but it is extremely unlikely to detect the disease in fish that are apparently healthy. In other words, PCR testing is currently inadequate for identifying survivors of infectious contacts or of outbreaks; it won't identify a KHV "carrier" koi. Indirect tests can measure antibodies to a particular virus, which makes them useful in detecting previous infection or the particular stage of an infection. More specific tests are evolving, and the screening process is getting better.

the cost of PCR is \$100 per test, plus shipping specimens on ice to UC Davis — another \$100 — but the quandary is which fish to test.

Preventive protection, then, is an absolute necessity, and that means quarantine and vaccination. Quarantine has been frequently discussed in our club so we won't address it here beyond saying that no KHV quarantine or testing procedure offers 100% assurance that a koi previously infected with KHV will be detected. It is unclear how long a KHV survivor will maintain detectable antibodies, but studies have shown them a year or more following infection. Through quarantine and serological testing we can greatly reduce the odds of infecting other koi.

One note of good news is KOVAX, a new vaccine developed over the last two years in Switzerland by Novartis.⁽²⁾ This is a "modified live virus" vaccine⁽³⁾ that was made by growing the virus in culture dishes and causing it to mutate, batch after batch, until they came up with a temperature-sensitive mutant that didn't kill the fish; when vaccinated with it, they had 100% survivability. This is not an injectable vaccine but rather is administered in a 45-60 minute water bath at 70-74% solution (use 10mg in 26 gallons of water to treat 44 pounds of fish) and it cannot be reused. Effectiveness is time, concentration and exposure dependent. Of course, for cost effectiveness you want to pack as many koi in the bath as possible.

Not all your koi can be vaccinated, which seems to leave your pond still vulnerable. The vaccine is only approved for fish over 100 grams weight; that corresponds to koi about six inches in length, a popular *inexpensive* size to purchase for the enjoyment of the growing-out. There is a high mortality rate with the smaller fish. And how long does the vaccine-induce immunity last? They don't know for certain, but at least a year. The koi immune system doesn't have a "memory" like mammalian systems, and they have a weaker immune system to begin with. Consequently, it is recommended that the koi be revaccinated seasonally, i.e., yearly; the antibodies will show up several years later.

Drastic measures may be required in the fight against KHV, but the alternative could be a drastic and devastating loss. The cost to vaccinate may be daunting: available only through a veterinarian, the first bath may cost upwards of \$400-\$500, including labor. In the event of an outbreak, the clean-up may be demanding. While the virus generally lives only a few hours OFF the fish or on wet nets; nonetheless, the pond should be drained and bleached, or allowed to dry out completely. Then you are starting over from scratch to re-establish a healthy pond, putting any fish you plan to introduce into quarantine while the fresh pond cures.

Our thanks to Doc Hildreth for meeting with us and generously sharing all this with us!

⁽¹⁾ *Endemic*: belonging or native to a particular people or country; characteristic of or prevalent in a particular field, area, or environment; restricted or peculiar to a locality or region, as *endemic diseases*...

⁽²⁾ "A modified live virus is generally the second least expensive to develop and typically takes the second longest time to develop. It is, however, frequently the most effective in producing a strong, long-lasting effect. The rub with modified live virus vaccines comes in proving they are safe, i.e., proving that the modified live virus will not revert to the pathogenic wild type. Additionally, keeping the vaccine "alive" until it's administered adds another layer of complexity and expense to a final product." ~Project KHV team

⁽³⁾ In a March 2006 press release the government of Canada announced: *Novartis is developing an immunization strategy for the prevention of koi herpes virus. While preventing KHV in koi carp is a priority for hobbyists and sellers to protect the breeding, export, wholesale and retail markets, the control of the disease will reduce the risk of infection in the food carp industry which is of great importance in developing nations. This project, with total estimated costs of \$2.5 million, will receive up to \$1.8 million from the Atlantic Innovation Fund over a five-year period.*

Additionally, Novartis acquired rights to a patent covering the use of DNA vaccines in fish and also to another patent covering a unique delivery methodology.

BUSINESS CARD	\$100 / year
QUARTER-PAGE DISPLAY	\$140 / year
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Approximately 135 copies of the Inland Koi Connection are printed and mailed eleven times yearly. For more information call Debby, IKS Editor, at (951) 781-3887



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DEAR KOI CLUB PRESIDENT OR MEMBER CONTACT,



We hope this announcement finds you and your club members healthy, happy, and off to a great ponding season. The purpose of this email is to inform koi clubs throughout the United States of a change in the affiliation of our koi judging group. Effective June 15, 2012, the new name of our group will be the American Koi Judges Association (AKJA). We will no longer be affiliated with any other koi organization. Our new independent position means we can assist the entire koi hobby without being placed in a difficult position of defending any other organization's political actions.

For the American koi hobby and hobbyist, we doubt you will notice much of a difference. We will continue to offer our services for judging koi shows, giving presentations at club meetings, and volunteering to support the local koi hobby in any way we can.

We will be pretty much the same group of koi judges (with a few exceptions) that were affiliated with a national koi club organization previously. In recent years our talented judges group has provided judges for 30+ koi shows annually plus countless other events where we served as speakers, show staff, and volunteers to many other koi related events.

We are retaining all the same proven rigorous requirements for applicants and certified koi judges except for requiring them to be affiliated with any other specific

group. American Koi Judges Association (AKJA) Certified Judges have retained their previous level of training, certification, and seniority that was earned with another organization. By joining and creating an independent self-governed organization of koi judges, we know that we will be even better able to provide excellent support and assistance to any and all local koi clubs regardless of their national affiliation. We are developing a new website which can be accessed at www.americankoijudgesassociation.org and is free and available to anyone.

Koi judges and candidate judges with our organization are proven excellent teachers and experienced koi keepers. We plan to post a lot of free information and online articles about koi appreciation and other koi related topics on our new website as we move forward. We encourage your club to send an email for any koi related events you are planning, to be posted on our koi event calendar, to our webmaster, Dale Gingerich, at DaleRG@CharterTN.net

If you have any questions about the American Koi Judges Association, please do not hesitate to contact any of our Judging Committee members. We look forward to seeing you at a koi event sometime soon.

Respectfully,
 Charles Phelps, AKJA Chairman - kykoi@insightbb.com
 Bryan Bateman, AKJA Committee - bryzkoi@aol.com
 Ray Jordan, AKJA Committee - rjordan8@swbell.net



WE WELCOME YOU!

NEW MEMBERS	CITY	JOINED
PATRICK BUSBY	RIVERSIDE	06 - 12
RICHARD & DEEDEE HENRY	NORCO	05 - 12
AIKO HOWO	REDLANDS	06 - 12
JOHN JOHANSON	MARCH ARB	06 - 12
LINDA LAWHON	REDLANDS	06 - 12
LEN & VEVA MCGINLEY	REDLANDS	05 - 12
LEN & JESSIE KNAPP	REDLANDS	05 - 12
MICHAEL & DIANA NEUENDORFF	REDLANDS	05 - 12
TRICIA & STEVE PARKER	REDLANDS	06 - 12
ELIZABETH PRINCE & RANDALL GROMMET	RIVERSIDE	06 - 12
PAT THOMPSON	RIVERSIDE	06 - 12

IKS HOPES YOU ENJOY A FUN AND INFORMATIVE ASSOCIATION WITH OUR CLUB! FOR EXTRA HELP, QUESTIONS, OR INFORMATION, BE SURE TO REFER TO THE 'HELP LINE' ON PAGE TWO.



HAVE YOU SEEN THE FOLLOWING WEB SITES YET?

- **KoiClassifieds.com**
Classified ads by the people, for the people!
- **KoiLab.com**
Doc Johnson's fish health lab and hospital!
- **KoiCrisis.com**
Your first stop with sick fish. All about sick fish and nothing else.
- **Fishdoc.net**
Represents hobbyist education, veterinary resources, veterinary referral and online publication libraries.

**INLAND KOI SOCIETY
MONTHLY PLANNING CALENDAR 2012**

REGULAR MTG 4th Sunday	HOSTS & City	PROPOSED PROGRAM Speakers	BOARD Wed. after Mtg
July 22	Miguel Sierra - Murrieta	Shawn McHenry, Mystic Koi - Topic to be determined	July 25
August 26	Pam Spindola - Santa Ana	Pam Spindola - Slide show	August 29
September 23	Patricia Hurley - Cherry Valley	Spike Cover - Topic is Quarantine	Sept. 26
October 20	Bus Trip	Mission San Luis Rey	Oct. 24
November 18	Jerry and Pat Mall - Temecula	Pending	Nov. 28

Experience a touch of Philippine culture at the U.S. Philippines Expo. Enjoy authentic food, products and businesses at booths throughout the Expo. There's entertainment for the entire family, including a live concert. Enjoy the best of Southeast Asia Information call (424) 240-1007



WATERMELON TOURS ~ July - August, 2012 / Looking for something to do during the SUMMER? Look no further. A fun experience for the kids and also educational to get the kids to think a little while they are out of school. On the **Watermelon Tour** you can look forward to:

- * Wagon ride around our 30-acre farm
- * See how summer fruits and vegetables grow
- * Taste some delicious fruits and vegetables
- * At the end we will cut up some farm fresh melon and watermelons, get a little messy in the process.
- * Then we will go pick your very own watermelon

Come take a genuine wagon ride around our large 30-acre working farm to see how your favorite fruits and vegetables grow. While on the tour we will not only be trying the freshest watermelon, but all types of fruits and vegetables that you see growing. At the end of the tour, there will be time to pick and choose your own organically grown watermelons to cut up and taste for yourself. Don't worry about the summer time heat as much of our tour has shaded areas.

Eat healthy and learn how fresh fruits and vegetables grow. Adults & Children \$17.00 - Children (age 2 yrs old and under) Free /Includes a watermelon to take home. Group rates are available; call for details

Weekday tours by reservations only. Please call (949) 653-2100 ext 204 / **No Reservations are needed for Saturday or Sunday** / Weekend Tour Times: 9:30 am to 2:30 pm every hour / See more information on the right...

Concerts at Nixon Library

18001 Yorba Linda Blvd.
Yorba Linda, CA 92886
(714) 993-3393
Free concerts are held Sundays, except when otherwise noted, and are open to the public. Doors open at 1:15 pm and concerts begin at 2 pm unless otherwise noted.

Date	Time
Sun, Jul 15	1:15 pm
Sun, Jul 22	1:15 pm
Sun, Jul 29	1:15 pm
Sun, Aug 5	1:15 pm
Sun, Aug 12	1:15 pm
Sun, Aug 19	1:15 pm

events.nixonfoundation.org/concerts/

**Family concert: Paul
Justin and the Saloonatix**

Wednesday, Aug 8 – 6:00 pm
[Fairmount Park \(band shell area\)](#), Riverside
Bring a blanket or chair and enjoy a cool summer evening of country music favorites in Fairmount Park from 6 to 9 pm

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2012 Coming Events

Jul 13- Aug 12	ORANGE COUNTY FAIR ~ Admission Charged / Orange County Fairgrounds and Exposition Center, 88 Fair Drive, Costa Mesa 92626 / Closed on Monday's / (714) 708-3247 www.ocfair.com
21	21ST ANNUAL POND TOUR ~ Santa Clara Valley Koi & Water Garden Club / Covering ponds in the Bay area (Woodside, CA on the north end and San Jose, CA at the south end) www.sckoi.com/
21	SANTA CLARITA KOI & WATER GARDEN CLUB ~ Mini-Pond Tour - Doug Sudbury (661) 296-9252 www.santaclaritakoiclub.com
22	INLAND KOI SOCIETY MEETING & POTLUCK ~ 2:00-5:00 pm. Host - Miguel Sierra in Murrieta For more info (951) 398-7048
25	IKS BUSINESS MEETING ~ 7pm / All members of IKS welcome! — 6531 Box Springs Blvd, Riverside / Dennis Lynaugh (951) 780-0123

WATERMELON TOURS ARE HERE!!!

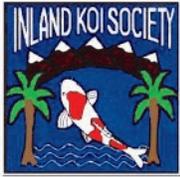
Weekend Tour times will be 9:30am-2:30pm every hour with no reservations needed.

Weekday Tours require reservations. Call 949-653-2100 ext 204. Take a wagon ride, eat some veggies, and take home your very own watermelon.

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04- 05	U.S. PHILIPPINES EXPO ~ Fairplex, Building 4 - 1101 W McKinley Ave., Pomona, CA 91768 See info at left info@fairplex.com
10	AKCA BOARD MEETING ~ 6pm / 529 W. Blue-ridge Ave., Orange 92865 / Call Mac at (951) 398-7048 for more information.
11- 12	REPTILE SUPER SHOW ~ Fairplex, Building 9-1101 W McKinley Ave Pomona, CA 91768. A fun and educational event for the whole family with more than 200 vendors from all over the world / Sat. 10 am - 6 pm / Sun. 11 am - 5 pm reptilesupershow.com
Jun 25- Aug 20	REDLANDS BOWL SEASON ~ Free = Tuesday and Friday evenings at 8:15 pm / America's oldest continuously running summer music festival www.redlandsbowl.com (909) 793-7316
26	INLAND KOI SOCIETY MEETING & POTLUCK ~ 2:00-5:00 pm. Hostess Pam Spindola in Santa Ana. For more info (951) 398-7048
29	IKS BUSINESS MEETING ~ 7pm / All members of IKS welcome! — 6531 Box Springs Blvd, Riverside / Dennis Lynaugh (951) 780-0123
Jun 29- Sep 02	LAGUNA SAWDUST FESTIVAL ~ Open 10 am - 10 pm daily / 935 Laguna Canyon Road, Laguna Beach, CA 92651(949) 494-3030 www.sawdustartfestival.org
Aug 31- Sept 30	2012 L.A. COUNTY FAIR ~ Fri., Aug. 31, 3 pm - midnight; \$1 admission 3—6 pm / Sat., Sept. 1—Mon., Sept. 3, \$1 admission 10 am - 1 pm only; 1 pm - closing \$17 (ages 13+) 1 pm to closing \$12 (ages 6-12) www.lacountyfair.com/2012/



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