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Bob Chaffer
Diane Giangrande

March, 2020

By The Pond

Hello Everyone,

Monitor water temperature

Its nearly spring and I know everyone is anxious to start getting outside and interacting and feeding your wet pets but remember that water temp is a very different temp than ambient temperature, especially in early spring. This is very important. Please don't do anything until the water temperature is stable from 50–55 F.

I am still surprised to know how many people do not have a floating pond thermometer in their ponds. Koi are cold-blooded animals. In other words, they cannot control their body temperature; rather the environment or water temperature determines Koi's body temperature and controls their behavior. Knowing water temperature is essential throughout the season because it guides us on what to do, especially at the beginning of the season.

If you do not have a thermometer, please buy one. This will help keep you from making a mistake. Also keep in mind their immune system is not functioning well until a consistent water temp of 55 - 60 F.

Hopefully this reminder will help each of us to be vigilant about when to start to feed our pets again for the new season.

I hope to see a lot of your faces at the Tigie Household on Sunday March the 8th!

Membership

We had 34 people in attendance at the February meeting. We encourage all of you members to come to some meetings and volunteer for our auction and koi show. All the jobs are simple. Try different things to find what works best for you. As always, thank you for making our club fun!

March is upon us...plants are greening up...daffodils are already blooming...our koi and goldfish are enjoying warmer days!

Another special thank you to Vicki & Carl (The Koi Store) for their generosity in speaking to our club. Thank you to Kelly (Atlanta Water Gardens) for hosting the February AKC meeting...and to our AKC President, Dr. Chad Bishop, thank you for saving the day with food and drinks!

Special Reminder that if you purchased fish from the Koi Store (during January's meeting), please collect your slick-skinned friends by April.

Since early January, we've had a number of AKC meeting schedule changes...and some of you have been very patient with the unforeseen challenges and changes that scheduling brings. That said, a personal thank you to several of our AKC members who have not only volunteered but who have been patient and understanding with me.

As you know, the AKC is a business - and it can't thrive without the generosity and volunteer efforts of its members and sponsors. If your life schedule allows, please consider volunteering at the upcoming auction. To all our AKC Koi experts (there are so many of you reading this newsletter!) - The Atlanta Koi Club members need to hear from you. Please volunteer to be a speaker. June, July and August are additional months still open for a speaker. Please contact me if you are interested.

Hope to see you at the next, very important meeting!

2pm - March 8th - John & Diane Tigue's residence - Carl Forss will be the "Tour de Forss" speaking on a gorgeous pond construction and proper koi catching and handling techniques...just in time for the upcoming Auction! If you want detailed information about pond building and koi-handling, you'll be hearing from one of the top experts in the Southeast and beyond!

Something for all: "Be kind, courteous and a positive example for all. Just be nice!"

Thank you!
Kevin McDonough
"Your AKC VP"

It's getting closer to auction time and you know the drill - this is our largest fund raiser of the year and we need your help. The Sign Up Genius for volunteering at the auction can be found here: <https://www.signupgenius.com/go/4090445a5a629abf49-2020>

For members wanting to sell fish please click on the following link and complete and submit the Seller Registration Form: <https://form.jotform.com/70255302898157> The limit is 2 tanks per person. Please reply to this email if you would like more than 2 tanks - we will keep a list and let you know the week of the auction if we are able to accommodate your request. The link can also be found on the auction page of the web site.

If you are bringing plants and/or equipment to sell, please make sure all items are marked with your name, item description and price. In addition, please submit a master list (name, description and price) of what you are selling to the cashiers so they can keep track of the items.

If you have any questions or need help signing up, please reply to this email.

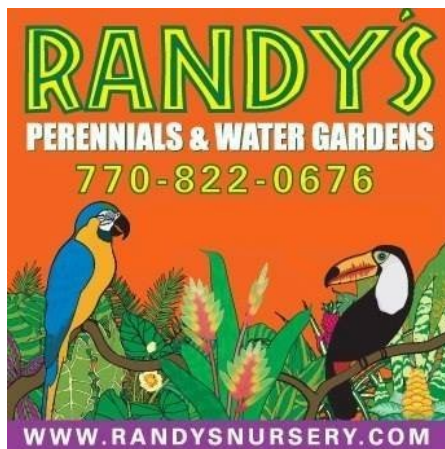
Thanks,
Diane & Alan

The presentation on fish diseases that Vicki did for our February meeting at Atlanta Water Gardens has been uploaded to both our web site and our Facebook page. For those of you that missed it you should take a look - it is super helpful information.

Thanks,
Diane

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T&T Uniforms, and
The Koi Store



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- *Fish Meds



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February's Meeting at Atlanta Water Gardens

The weather was great, and so was the presentation by Vicki Vaughan (The Koi Store/ Flat Rock Koi). With Carl handling the slides, and Vicki discussing Koi fish diseases, an encompassing presentation was shown to our very interested club members.



Argulus and Lernea! Oh No!

by E.L. Johnson 1994 Issue

Koi are susceptible to a myriad of pathogens at certain times of the year, but it is true that things will occur seasonally.

As an example, it is rare to see massive springtime-type die-offs from most of the ciliated protozoan parasites like Chilodinella or Costia. That is not to say that these do not happen, because they do. But most Koi at this stage of the summer have a fully competent immune system, and can carry a small number of organisms with no problem.

Amazing, huh. ..

Two pathogens that do not rely on Koi immune suppression to attack are Anchor worm [Lernea] and Argulus, (or fish lice). No matter what condition the Koi is in, if these pathogens gain entrance to your pond, they can and will attach and proliferate.

This is what we are hearing about right now, Fish Lice and Anchor worm.

Fish Lice are sucktorian parasites that use tiny suckers to adhere to the surface of the fish. These pathogens can vary in color, but are usually dark green. They have tiny stiletto-like mouth parts that they use to puncture the fish and take a blood meal. The literature contains references that suggest that Argulus can inject bacteria, toxic substances, fungi and even trypanosomes in the feeding process.

Argulus is a vicious parasite. It lays about 500 eggs on the surface of rocks, and can even parasitize amphibians, like frogs. The eggs take a whopping 4 weeks to hatch out. Can you see how the problem might pop up a long time after you got a new ornament or specimen???

After they hatch, they go and suck on the fish for 5-6 weeks before you can even see them. In the process of feeding, the immature forms can cause flashing and irritation in the Koi, with nothing for you to see to help with the diagnosis. Once mature, they become more visible, but your fish have been scratching all the time with the immature phases. One of the most significant problems associated with occult and obvious Argulus infestations, is the Ulcer disease they can cause. Where they bite into the fish, bacteria such as Aeromonas and Pseudomonas can infect the skin and cause ulcers. Some references suggest that the Argulus organisms can actually inject a toxic or inflammatory compound into ulcer sites that also causes ulcers.

I said all-that to say this, Argulus is a nominal problem in ponds where Dimilin has been employed. Dimilin is a gyrase insecticide that inhibits the formation of the crustacean [Argulus] skin. When the Argulus tries to mature, it simply dies out. That is why the Dimilin is so much more effective against immature forms of the parasites than against the mature forms. Even still, the Argulus adults are cleared within 3-4 days under normal conditions anyway. Argulus is potentially devastating, but in reality, usually only a temporary scare, and a dose of Dimilin away from being a memory.

Lernea is a similar story. But these parasites vary tremendously in appearance from Argulus. Lerneiid organisms are elongated, Y-shaped creatures that emerge from their hold-fast spot under a scale on the bodies of the fish. Always, the organisms you see attached to the fish are females. And the Y shaped part of the body is a pair of egg cases that may contain as many as 700 eggs.

Lerneia is a similar story in that the parasite takes awhile to mature, and the eggs can take up to 15 days to hatch in warm water (summertime temps). Again, this is a situation where the fish may be parasitized and flashing even though you can't see anything with the unaided eye, and very well it could be immature Lerneiid organisms feasting on the fish.

Current recommendations are for the removal of the Lerneiid organisms with tweezers, and the disinfection of the holdfast spot with Mercurachrome or Iodine. This is fine, but *Lernea* is also eradicated, and quickly by Dimilin applied to the water. Other older treatments for Dimilin, and those that still work, are with the organophosphates, like Fenthion, Malathion, Trichlorfon, and Masoten. Neguvon, Dipterex and Dyllox are other examples. These go into the water at 0.50 ppm every 5 days or so until the parasites drop off dead. Again, I repeat that Dimilin is the treatment of choice, as it is safe and rapidly effective against all the branchiurian, crustacean and Ergasilid parasites.

Bottom line, know that these parasites take a while to mature and can harm your fish during their maturation, causing flashing behavior, up until they are seen with the unaided eye and finally treated with Dimilin when possible. If Dimilin is, for some reason, not available, the next best choices are to treat with Organophosphates as listed in the article.

Monthly Officer Meeting Minutes

Executive Officers:

Office	Officer Name	Term	Present
President	Chad Bishop	Jan 2019 - Dec 2020	Y
Vice President	Kevin McDonough	Jan 2020 - Dec 2021	Y
Secretary	Cheryl Jacobs	Jan 2019 - Dec 2020	Y
Treasurer	Angie Jones	Jan 2020 - Dec 2021	Y
Equipment Manager	Alan Puch	Jan 2019 - Dec 2020	Y

Executive Team Discussion Items:

Membership

25 members have not renewed/not responded

Will be removed from mailing list

If delinquent members renew, they will not be eligible to receive 75% of auction sale

AKC sponsors

A big welcome new sponsors Splendor Koi and T and T Uniforms!!

AKC will make sponsorship offer to Shawn Rosen (posts on FB) and Atlanta Water Gardens

IQuatics will not be renewing sponsorship

By-Laws Revision

Work in progress to improve by-laws

Auction rules

Membership dues

Volunteer participation at events

Out of town members

AKC Auction

Tanks to be re-labeled – numeric and alpha

Obtain current inventory list of equipment

PR chairperson to start posting on events calendar and marketing auction event

Treasurer Report

File with Secretary of State

Corporate renewal

Taxes

Determine carry over reserve funds for non-profit organization

KOI USA

Need to update/provide current officers

Subscription

Increase from \$26 to \$27 for new membership only

AKC Facebook Administrator

**Atlanta Koi Club
Financial Statement
As of January 31, 2020**

**BEGINNING CHECKING ACCOUNT BAL-
ANCE:**

\$13,106.07

INCOME STATEMENT

Income

2700 Membership	
2720 Name Badge	\$0.00
Membership	
2730 Dues	\$2,168.00
Koi USA Sub-	
scription	\$130.00
2745 Sponsorships	\$200.00
2500 Miscellaneous Income	
2545 Monthly Raffle	\$105.00

Total Income

\$2,603.00

Expenses

500 Koi Show	\$186.00
520 Banquet Costs	Dry Cleaning
700 Misc.	\$200.00
Food Monthly	
740 Meeting	Dec. Social
1100 Rent	\$185.00
1101 Monthly Rent	Feb.
1300 Membership	\$50.00
Koi USA Sub-	
1325 scriptions Paid	
140 Bank Charges	\$68.00
1466 PayPal Charge	

Total Expenses

\$689.00

Month Net Income/(Loss)

\$1,914.00

ENDING CHECKING ACCOUNT BALANCE:

\$15,020.07

**Atlanta Koi Club
Financial Statement
As of February 28, 2020**

BEGINNING CHECKING ACCOUNT BALANCE: **\$15,020.07**

INCOME STATEMENT

Income

2700 Membership	
2720 Name Badge	\$0.00
Membership	
2730 Dues	\$728.00
Koi USA Sub-	
scription	\$26.00
2745 Sponsorships	\$300.00
2500 Miscellaneous Income	
2545 Monthly Raffle	

Total Income **\$1,054.00**

Expenses

400 Insurance	
Liability Insur-	
410 ance Premium	\$575.25
D & O Coverage	
1000 Raffle Expense	
Monthly Meeting	
1030 Items	\$17.00
1100 Rent	
1101 Monthly Rent	\$0.00
Feb.	
1300 Membership	
Koi USA Sub-	
1325 scriptions Paid	\$75.00
140 Bank Charges	
1466 PayPal Charge	\$35.36

Total Expenses **\$702.61**

Month Net Income/(Loss) **\$351.39**

ENDING CHECKING ACCOUNT BALANCE: **\$15,371.46**