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Vice President  
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Koi Show Chair  
Pond Tour Chair  
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AKCA Director  
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Webmaster

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Melanie Onushko  
Cheryl Jacobs  
Robin Scott  
Alan Puch  
Melanie Onushko  
Alan Puch/Diane Giangrande  
Chad Bishop/Diane Giangrande  
Melanie Onushko  
Cheryl Jacobs  
Ron Scott  
  
Bob Chaffer  
Michael Anderson

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## April, 2019

**Hello AKC,**      Chad Bishop

Thanks to everyone who attended a fun and exciting meeting last month at The Koi Store! Carl and Vicki.... I would like to Thank You both for your hospitality and allowing us to come and see your wonderful facilities! Many great quality koi were there and many of our members have added some to their collections.

Well this weekend is our annual Auction held at Coastal Pond Supply in Tucker GA. This is the largest fund raiser for our club throughout the year to help support the costs associated with our Show in the fall. Any and all help would be appreciated! Thank you to all who have signed up! If you can make it and act as a floater or as needed positions please come!

Also in other news, all submissions for new logo ideas for the club must be submitted by June 1<sup>st</sup>. The submissions will be sent with the June newsletter. We will vote for the favorite new logo at our June meeting. The winning new logo idea will face off against our current logo and we will have that vote at our July meeting. This is the only way I know to do this so the entire club can have input for our logo. It may stay the same or be changed, but that is up to the club and our members. Hopefully this outline can clear up any confusion about this process. I know it has been announced at meetings but it is hard to hear at times.

We do not have an official meeting in April, so I hope to see everyone at the auction for a fun and helpful event for our club!

We still need volunteers for the auction. If you haven't signed up, please do so here: <https://www.signupgenius.com/go/4090445a5a629abf49-2019>

The auction is how the club makes money to fund other things like purchasing new equipment, the show, etc. It takes a lot of volunteers to make the auction happen and we can't do it without enough people to help. We especially need help in the fish handling positions (baggers, transporters and bagged fish helpers), but there are other open slots as well. Please do not worry about lack of experience - we will train you on what to do. All help is greatly appreciated. Please contact Alan or Diane if you have questions or need help in signing up.

Diane Giangrande Co-Chair of Koi Auction

## Monthly Officer Meeting Minutes

Executive Officers:

Office	Officer Name	Term	Present
President	Chad Bishop	Jan 2019 - Dec 2020	X
Vice President	Melanie Onushko	Jan 2019 - Dec 2020	X
Secretary	Cheryl Jacobs	Jan 2019 - Dec 2020	X
Treasurer	Robin Scott	Jan 2018 - Dec 2019	X
Equipment Manager	Alan Puch	Jan 2019 - Dec 2020	X

Executive Team Discussion Items:

2019 Auction

Still in need of a Volunteer Coordinator  
 Need to discuss with Bill about tear down at Coastal Pond  
 Thurs – Set up & water treatment  
 Fri – Fish sign in  
 Sat – Auction starts at 11:00 am

Insurance

Need to start reviewing options and next steps

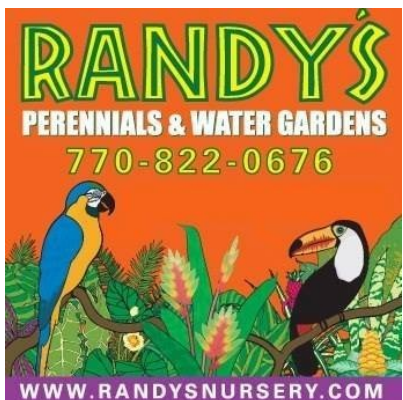
Poly Tanks

Does the club need to purchase more tanks?

If yes, how many?

Vote on number of tanks to purchase at next meeting

**Please remember our Sponsors:**  
**The Koi Store, Coastal Pond,**  
**Randy's, Koi Koi Pondscapes, Koi**  
**Whiskers, and Happy Koi**



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 \*Pondless Waterfalls and Lighting  
 \*Water Treatments (Clarity)  
 \*Fish Meds



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 (770) 442-0616  
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**MEMBERSHIP** . We had 34 people attend the March meeting at The Koi Store. It was a lot of fun! We ate some delicious homemade Brunswick Stew and yummy Refresher Chocolate Bars. Masuhara from Koda Koi Farm and Carl, judged a bowl of 5 Kohaku. The club then tested their Judging skills, based on what we learned from Happy Koi last month. After Carl explained why he and Masuhara ranked the Koi from 1 to 5, we had 1 person who judged them all correctly! New teenage member Jelani Udo! We may have a future Koi Judge in our club! He won a beautiful Goshiki donated by The Koi Store.

**April's meeting , April 13th 10am-4pm** will be our Auction at **Coastal Pond Supply 2110 Tucker Industrial Rd. Tucker, GA.** Bring your koi, plants and equipment. This is a great chance to get rid of all that extra pond hardware, upgrade your koi collection and browse Coastal Pond Supply's warehouse for anything you may need. Please volunteer for a few hours. Many hands make light work.

**POND TOUR MAY 18th.** There are 10 families, beautifying their yards, as we speak! We have new ponds, old ponds, waterfalls and streams. The yards surrounding them are just as beautiful with a variety of landscape styles and plants. Tickets are available online now! Get ideas and useful tips to add water to your yard. [www.atlantakoiclub.org](http://www.atlantakoiclub.org) tickets are \$15 for this self-driving tour in Marietta and Smyrna, rain or shine. Join us!  
P.S. last chance to advertise contact [melanie\\_o@comcast.net](mailto:melanie_o@comcast.net)



On March 10th, our meeting was held at The Koi Store in Watkinsville. After eating home-made Brunswick stew, a judging contest was held by all members to determine the optimum characteristics for judging fish.





Okay Atlanta Koi Club members! This is your chance to advertise your business in the full size 8 1/2 x 11" Pond Tour Booklet! Attached are the rates for different sizes and a poster that you can proudly display at your business or favorite local business. After payment, please email ads to [melanie\\_o@comcast.net](mailto:melanie_o@comcast.net) jpeg is preferred. Thank you for your support!

The Atlanta Pond and Garden Tour Saturday May 18<sup>th</sup>, 2019. This tour attracts a specific target market of people that have koi, are interested in building a pond or improving their existing pond(s), creating outdoor environments, filtration systems, plants and decorations. Your business is a good source for all of the above.

What better way to target market to those interested in ponds and gardens. Our last two tours have seen about 150-200 people attend the tour. By hosting this in different regions of Atlanta, we hope to increase attendance by 20% this year. I hope you will consider purchasing an ad in this year's Booklet.

The prices of the Ads are as follows:

- \$50 business card logo size + \$25 for color
- \$75 1/4 page ad + \$35 for color
- \$125 1/2 page ad + \$50 for color
- \$200 full page ad + \$50 for color
- \$250 inside front cover + \$50 for color
- \$300 back cover + \$50 for color

**\*\*Included** with your booklet ad, there would be a business card link from AKC's web site sponsor's page to your web site for the month of May, June and July. [www.atlantakoiclub.org](http://www.atlantakoiclub.org)

We get several hundred non-members for this event. Would you consider selling our booklet? It would be a cash only sale, which would be put in an AKC envelope to be picked up before the tour. In case anyone asks, we are a non-profit organization.

Please make payment online at <http://www.atlantakoiclub.org>. Go to "shop". Ads are first come, first served to past advertisers. The public will be invited to advertise starting on March 1st. After payment is made email ads to [Melanie\\_o@comcast.net](mailto:Melanie_o@comcast.net) in jpeg form if possible.

If you have any questions or concerns, do not hesitate to call 770-315-5200 Melanie Onushko [Melanie\\_o@comcast.net](mailto:Melanie_o@comcast.net) Please send your ads to me ASAP. Thanks!

Hope to hear from you soon, ads are first come first served!  
Melanie Onushko/ AKC 2019 Pond Chair



# 2019 ATLANTA POND & GARDEN TOUR

## pond stars

MAY 18, 2019

9:30 AM – 5:30 PM



**SELF DRIVING TOUR OF 10 unique PONDS,  
WATERFALLS AND STREAMS.**

**Tickets \$15 available on our website  
[www.atlantakoiclub.org](http://www.atlantakoiclub.org)**

## Heavy Metals and Their Effects



Heavy metal	Effect in fish	Effect in humans	References
Arsenic (As)	Death because of suffocation; suppression of antibody levels; changes in functioning of T cells and B cells and making them inclined to infections	Stomach, lung and intestine irritation, decreased production of erythrocytes and white blood cells and skin disturbances; cause infertility; death	Ghosh <i>et al.</i> , 2006; Liao <i>et al.</i> , 2014; Pandey <i>et al.</i> , 2014
Chromium (Cr)	Hinder the behavior and growth of fish; spoiling of the respiratory epithelium of gills and death	Can irritate skin and can produce ulcer; cause liver, kidney, circulatory and nerve tissue damage	Vinodhini <i>et al.</i> , 2008; Benoit, 1976; Pandey <i>et al.</i> , 2014
Copper (Cu)	Vacuolization of endothelial cells and hepatocytes; shrinkage and necrosis in liver; decreased egg production; spawning blockage; decreased survival of young; low fertility	At higher doses, it causes damage to liver and kidney, anemia, and intestinal and stomach irritation; Wilson's disease	Arellano <i>et al.</i> , 1999; Figueiredo-Fernandes <i>et al.</i> , 2007; Sorensen, 1991; Pandey <i>et al.</i> , 2014

## Heavy Metals and Their Effects



Heavy Metal	Effect in fishes	Effect in humans	References
Cadmium (Cd)	Myocardial diseases have been observed	Lung cancer, obstructive pulmonary disease, osteomalacia and osteoporosis	Pandey <i>et al.</i> , 2014
Zinc (Zn)	Affects tissue respiration in some fishes; hypoxia; accrues structural damage affecting the growth, development and survival of fish; affects hatchability	Relatively harmless; long-term and high-dose interferes with the copper uptake	Kori-Siakpere <i>et al.</i> , 2008
Lead (Pb)	Genotoxic; cytotoxic damage in gill and fin epithelial cells in some fishes; in other fishes, it delays embryonic development, inhibits growth, suppresses reproduction, causes kidney dysfunction; inhibits hatching of eggs, hypertrophy of gills	Effects depend on dose and age; high level causes problems in the synthesis of hemoglobin (Hb) and causes chronic damage to nervous system	Ibemenuga, 2013; Pandey <i>et al.</i> , 2014

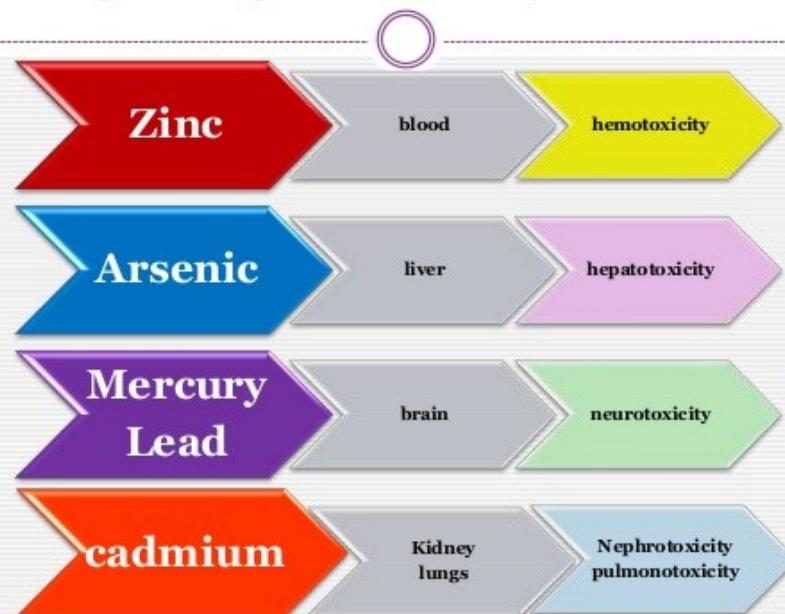




# Heavy Metals and Their Effects

Heavy metal	Effects on fish	Effects on humans	References
Iron (Fe)	Disruption in respiration; reduction in the area of gill accessible for respiration, damaging the respiratory epithelium and death due to suffocation		Dalzell <i>et al.</i> , 1999;
Mercury (Hg) and Methylmercury (MeHg)	Liver, gill arches, blood parameters, kidney, nervous system and olfactory epithelium damage, reduces sperm viability, production of eggs and their survival rate	Gingivitis, congenital malformations and spontaneous abortion; damage to CNS and brain; abortion.	Baatrup, 1991; Oliveira Ribeiro <i>et al.</i> , 1985; Oliveira Ribeiro <i>et al.</i> , 2006; Raldúa <i>et al.</i> , 2007; Pandey <i>et al.</i> , 2014
Nickel (Ni)	Cause respiratory problems		Palaniappan <i>et al.</i> , 2004

## Target organ toxicity of metals



## Wet Lab Seminar, June 29th & 30th

If you receive the KOI USA magazine, you know about the Wet Lab Seminar and Banquet being held on the East Coast of the U.S.; namely Greenville, South Carolina. It will be held at the Hyatt Regency hotel in downtown Greenville.

This is an opportunity to attend without having to fly across country. The seminar is being sponsored by the South Carolina Koi & Water Garden Society and the AKCA. Robert Wicker will be the guest speaker at the Saturday night banquet.

There will be 2 days of great info on koi husbandry from water quality to disease prevention. There will also be a discussion on KHV with Dr. Ling Jin from Oregon State University to talk about what research has been done and what needs to be done to rid us of the dangers of KHV.

Please see the attachments for details. This is a great opportunity so close to home. Take advantage of it. You can also go to: [SCKWGS.org](http://SCKWGS.org) for info. Just click onto events.

See you there.

Mel Barutha

**AKCA AND SCK&WGS, WET LAB & BANQUET • HYATT REGENCY GREENVILLE, SC**

**PLEASE PRINT LEGIBLY**

NAME (ONE) \_\_\_\_\_

NAME (TWO) \_\_\_\_\_

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EMAIL ADDRESS \_\_\_\_\_ CLUB AFFILIATION \_\_\_\_\_

**SCHEDULE**  
**SATURDAY JUNE 29**  
KHA Wet Lab ..... 8am - 5pm  
No Host Bar/Reception ..... 6pm - 7pm  
AKCA Business Meeting, Raffle/Auction .... 7pm - 11pm  
**SUNDAY JUNE 30**  
KHA Wet Lab ..... 9am - 1pm  
Stroll Down Main Street ..... 2pm

**MEALS**  
**SATURDAY LUNCH \$25 each**  
**Lunch Buffet – Butcher Block**  
Mediterranean pasta salad, Baked potato salad, Arcadian field green tossed salad with cucumbers, cherry tomatoes, croutons, ranch dressing and balsamic vinaigrette, Artisan breads and condiments, Smoked turkey breast, roast beef, black forest ham, Swiss, cheddar and provolone cheeses, Assorted homemade cookies  
**SATURDAY BANQUET \$55 each**  
**Dinner Buffet – South of the Border**  
Pasoletto with sliced limes, cilantro and sour cream  
Southwestern Chopped Salad with cherry tomatoes, roasted corn and chipotle ranch  
Chimichurri Skirt Steak  
Mojo Braised Chicken  
Corn and Flour Tortillas  
Vegetarian choices available  
Fresh Pico and Guacamole  
Spanish Yellow Rice  
Black Beans with chilis and queso fresco  
Tres Leches

**REGISTER TODAY!**

**PAYMENT**  
Please print, complete and mail form. Payment by check or credit card (VISA or MasterCard) must accompany registration form. Make check payable to AKCA or fill out below for credit card payment:  
Check one: ☐ VISA ☐ MasterCard  
Expiration Date: \_\_\_\_/\_\_\_\_/\_\_\_\_ CVV#: \_\_\_\_\_  
ACCOUNT NUMBER \_\_\_\_\_  
SIGNATURE \_\_\_\_\_  
or Call Brenda Chandler with credit card info at 949-650-5225.

**TOTAL**  
**LAB**  
KHAs/KHA Students ..... No Charge  
SCK&WGS members ..... x \$25 = \$ \_\_\_\_\_  
All other AKCA members ..... x \$35 = \$ \_\_\_\_\_  
General public ..... x \$50 = \$ \_\_\_\_\_  
**MEALS**  
Lunch ..... x \$25 = \$ \_\_\_\_\_  
Banquet ..... x \$55 = \$ \_\_\_\_\_  
**TOTAL \$** \_\_\_\_\_

 **Mail form and payment to:**  
AKCA  
PO Box 10879  
Costa Mesa, CA 92627



**Questions: Call or email...**  
**Brenda Chandler** (949) 650-5225  
(donnbda@aol.com)  
**Mel Barutha** (864) 895-9597  
(melbar203@aol.com)



Hosted by The AKCA and  
South Carolina Koi and Water Garden Society

# **Wet Lab Seminar & Banquet**

**JUNE 29 & 30**

## **Opportunity to Learn, Question and Visit:**

Nick Saint-Erne, DVM • Terry Maxfield, KHA Director • Dr. Ling Jin, OSU

## **Banquet Speaker:**

Dr. Robert Wicker

## **Hotel Reservations:**

<https://book.passkey.com/go/AssociatedKoiClub>



### **Hyatt Regency Greenville**

HOTEL CODE: Associated Koi Clubs of America

220 N. Main Street, Greenville, SC 29601

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[greenville.regency.hyatt.com](http://greenville.regency.hyatt.com)



## Major Awards Won by Our Members in Florida





**Atlanta Koi Club**  
**Financial Statement**  
**Year to Date**  
**As of March 31, 2019**

**BEGINNING CHECKING ACCOUNT BALANCE:**

**\$9,102.53**

**INCOME STATEMENT**

**Income**

2600 Pond Tour		\$989.24
2630 Advertising	\$989.24	
2700 Membership		\$200.00
2730 Membership	\$100.00	
2745 Sponsor In-	\$100.00	

**Total Income**

**\$1,189.24**

**Expenses**

200 Club Store		\$133.06
240 Equipment -	\$133.06	
600 Koi Auction		\$9.68
690 Misc. Expenses	\$9.68	
700 Misc		\$150.00
Food for Monthly Meet- 740 ings	\$150.00	
1100 Rent		\$185.00
1101 Rent	\$185.00	
1250 Advertising		\$16.83
1252 Advertising	\$16.83	
1400 Bank		\$96.14
Misc Banking New Quicken 1460 Costs Program	\$69.99	
1466 PayPal Charges	\$26.15	

**Total Expenses**

**\$590.71**

**Month Net Income/(Loss)**

**\$598.53**

**ENDING BALANCE:**

**\$9,701.06**

**Outstanding Checks:**

**\$870.15**

09/07/16	EFT	\$65.00	06/15/18	EFT	\$150.00
10/08/16	1311	\$16.85	10/03/18	EFT	\$33.63
10/24/16	EFT	\$216.00	03/18/19	EFT	\$26.51
10/03/17	EFT	\$107.17	03/25/19	EFT	\$185.00
			03/26/19	EFT	\$69.99

**Amount**  
**Shown on**  
**Checking**  
**Account**  
**Bank State-**  
**ment:**

**\$9,732.31**