

March/April 2021

US \$6.95

PONDTRADETM

Serving Professionals in the Pond and Water Feature Industry

www.pondtrademag.com

Winners!

Results of the 2020
Water Artisans of the
Year contest p.9

Ride the Pandemic Wave p.36 | Mastering the Craft p.46 | Stressed-Out Koi p.61



S A V I O
EXCELLENCE

NEW! ½ HP EcoFountain



Includes 3 Spray Pattern Nozzles

Anjon's EcoFountain adds elegance to your pond, oxygen for your fish, all while preventing algae growth.



Big Frog Eco Drive Pumps



- Engineered for 24 hour continuous use
- Full 2-year warranty
- Fish safe – Contains no oil
- Designed for low head applications to work with 90% of all ponds
- Overload sensor shut-off protection to keep pump from overheating or burning out

Professional Bottom Aeration Kits

- Two 10" diffuser plates with ultra-fine bubbles
- Secure cabinet for pump storage
- Reliable rocking piston air compressors
- Self-sinking and weighted diffuser and tubing



Anjon Manufacturing Serves Irrigation & Landscape Suppliers, Garden Centers & Nurseries, Pond & Water Feature Distributors with More Product Lines than Any Manufacturer.

sales@anjonponds.com



www.savioeng.com & www.anjomfg.com



800-553-5605

EASY TO USE

KILLS ALGAE, MOSS, AND MOLD

FOR USE IN WATER CONTAINING
LIVE FISH AND PLANTS

BioSafe Systems

MADE IN THE USA

GreenClean®

GreenClean LIQUID BACTERIA

Potent for ponds with aquatic life
Reduces pond sludge
Reduces excess nutrients

KEEPS WATER CLEAR & ODOR FREE

ACTIVE INGREDIENTS:
Sodium Lauryl Phosphate 12.50%
OTHER INGREDIENTS: 87.50%

TOTAL: 16.00%
PH product is equivalent to 12.00% Hydrogen Peroxide by weight
NET WEIGHT: 20 LBS

GreenClean GRANULAR ALGAECIDE

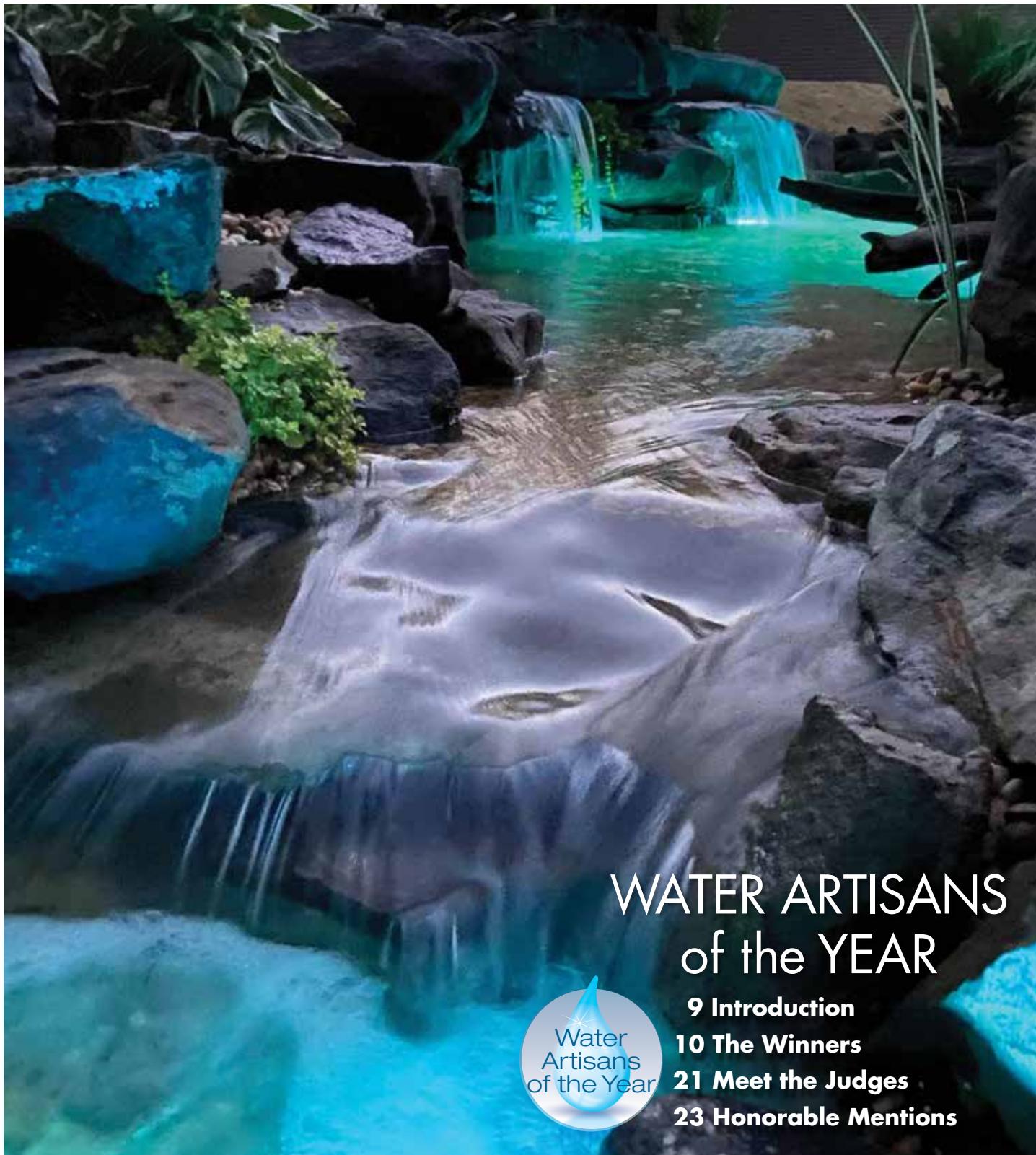
Eliminates algae and keeps water clear
Copper and chlorine free
Kills algae, moss, and mold fast

GreenClean FX LIQUID ALGAECIDE

Begins working immediately
Contains no harsh chemicals
Will not harm plants

KEEP OUT OF REACH OF CHILDREN
DANGER - PELIGRO

1.888.273.3088 | BioSafeSystems.com



FEATURES

28 Ponds & Recreation POND CONSTRUCTION

Recreation ponds offer a uniquely immersive experience in a natural ecosystem, but they may not be for everyone. **Alan Decker** shares his step-by-step sales strategy.

36 Ride the Pandemic Wave

Has your company received a loan through the Paycheck Protection Program? **Mark Battersby** rehashes the latest legislation and tax implications for your business.

40 What's Bugging You?

When you notice signs that the fish in your pond or aquarium have been infested with anchor worms or fish lice, you must act quickly, as **Carolyn Weise** explains.

46 Mastering the Craft

When does a pond builder become a Water Artisan? Former winner and one of this year's judges, **Shane Hemphill**, shares his thoughts on advancing in the industry.

52 In Full Bloom

John Sou provides a visual recap of all the winners at the 2020 New Waterlily Competition held by the International Waterlily and Water Gardening Society.

57 Professional Distancing

These days, you have to make the conference come to you. **Demi Fortuna** has the rundown of the first virtual Atlantic-OASE Professional Contractors conference.

61 Stressed Out LANGUAGE OF KOI

Just like us humans, koi can undergo extreme stress. But unlike us humans, koi can't just "chill out." **Ellen Kloubec** walks us through what to do when our fish get edgy.



DEPARTMENTS | COLUMNS

- 6 Upcoming Events
66 Trade News
68 Marketplace
69 Advertisers' Index

- 7 Publisher's Perspective

Upcoming Events

2021

May 11 - 13

National Hardware Show
Las Vegas Convention Center
Las Vegas, Nevada
www.nationalhardwareshow.com

June 26 - 27

21st Annual Pond-O-Rama Tour
St. Louis Water Garden Society
Private member gardens
Metropolitan St. Louis
www.slwgs.org

August 10 - 12

IGC Garden Center Show
McCormick Place
Chicago, Illinois
www.igcshow.com/

August 25 - 28

Pondemonium
Q Center
St Charles, Illinois
www.aquascapeinc.com/professionals/
pondemonium

Are you attending an event that you think others should know about? Are you hosting an event and want more people to come? Send event info to llelles@pondtrademag.com.



Moving? Let Us Know

If you are moving, please update your address with us so we can update our records.

Use the forms from the post office, or drop us an email at llelles@pondtrademag.com with your old and new contact information.

POND Trade Magazine, ISSN 1949-0585 is a trade publication of LG Publishing, Inc. Material is selected for its interest to the koi, water feature and pond industries, and the publishers accept no responsibility for the accuracy of content. Reproduction rights by written permission only.

POND Trade Magazine is published bi-monthly, starting in January, for \$41.70 per year by LG Publishing, Inc., POND Trade Magazine, PO BOX 2721, Orland Park, IL 60462. Qualified applicants may subscribe at no cost at www.pondtrademag.com. Postage is paid at Orland Park, IL and additional offices. For new subscriptions, additional copies and address changes, please call 708/873-1921 or email llelles@pondtrademag.com.

POSTMASTER: Send address changes to POND Trade Magazine, PO BOX 2721, Orland Park, IL 60462
© Lora Lee Gelles, 2021

Advertising Policies: LG Publishing, Inc. reserves the right to refuse to publish any ad. Submission of an ad to LG Publishing does not constitute a commitment by LG Publishing, Inc. to publish it. Publication of an ad does not constitute an agreement for continued publication. LG Publishing, Inc. will not be liable for failure to publish an ad as requested or for more than one incorrect insertion of an ad. In the event of an error or omission in printing or publication of an ad, LG Publishing, Inc.'s liability shall be limited to an adjustment for the cost of the space occupied by the error, with maximum liability being cancellation of the cost of the first incorrect advertisement or republication of the correct advertisement. Under no circumstances shall LG Publishing be liable for consequential damages of any kind.

PONDTRADE™

STAFF

Publisher

Lora Lee Gelles 708/873-1921
llelles@pondtrademag.com

Editor

Jordan Morris
jmorris@pondtrademag.com

Advertising Sales

Lora Lee Gelles 708/873-1921
llelles@pondtrademag.com

Graphic Design

Gelles Graphics
llelles@comcast.net

Accounts Receivable

Lois Spano
lspano@pondtrademag.com

Web Editor

Grant Gerke
ggerke@acceleratedcontent.com

Printer

Sutherland Printing
Montezuma, Iowa

For your Free Subscription

see our
website www.pondtrademag.com

or call **708/873-1921**

Contact Info

POND Trade Magazine
P.O. Box 2721
Orland Park, IL 60462
708/873-1921

www.pondtrademag.com

Publisher's Perspective

TAKE FIVE!

Well, well, well. We did it again. It's hard to believe we're publishing the results of our fifth Water Artisans of the Year contest. It seems like only yesterday that the POND Trade Editorial Committee was finalizing the rules and format of what would become our inaugural contest. And now here we are, celebrating the fifth year and five more pond contractors on the leading edge of the industry (along with five very respectable runners-up, of course).

The contest has also gone global! We were thrilled to receive entries from across the Big Pond (United Kingdom) and all the way Down Under (Australia). It's exciting to know that we have our finger on the pulse of the pond world.

We like to keep it fresh each year, so this year we debuted two new categories,

Ponds by Night and Fountains & Formal Features. Both received a lot of entries and interest, and it was a joy sorting through them before handing them over to the Supreme Stream Court. The competition among the three mainstay categories (Most Naturalistic, Best Pondless and Best Under \$15k) was just as stiff as it's ever been, and in several cases, the winners separated the runners-up by just one or two votes.

We've dedicated more than 15 pages of this issue to the contest, but like always, we've packed the rest of it with quality content intended to inform and inspire you as you build, grow and maintain your business. Our occasional tax contributor, Mark Battersby, gives us a timely, detailed look at the Paycheck Protection Program ("Ride the Pandemic Wave," pg. 36). Shane Hemphill, a winner of last year's contest and judge on this year's panel, shares some of his water wisdom ("Mastering the Craft," pg. 46). Also, if you keep koi, don't miss Carolyn Weise's profile on anchor worms and fish lice ("What's Bugging You?" pg. 40).

Once again, we'd like to express our pride in administering the Water Artisans of the Year contest, and we look forward to keeping it going for many years to come. A big thanks to all of our judges this year and to everyone who contributed to our donation to St. Jude Children's Research Hospital.

Happy PONDering!

UNITED AQUATICS
USA IMPORTER OF THESE POPULAR EUROPEAN BRANDS
Black Knight • HOZELOCK • pond h2o™ • GORDON LOW
Buttons AQUATIC PRODUCTS
www.unitedaquatics.com
United Aquatics, LLC • 230 North Maple Avenue, B1 #338
Marlton, NJ 08053 • 856-985-9339

Great Opportunity! Business for Sale

Patio Ponds Ltd

Building America's Best Pond Filters since 1987

- 70,000+ satisfied customers
- View all 14 models at: www.patioponds.com/pdfs/catalog.pdf
- Made with pride in the USA
- Complete listing at www.patioponds.com
- Business can be operated from anywhere
- No physical contact needed
- Interested persons email patiopondsltd@aol.com





FRESH NEW LOOK!
SAME TOP QUALITY PRODUCTS!



We are very excited to announce that our re-branding of our Microbe-Lift/Pond, Birdbaths & Fountain Products is complete. We started two years ago with the Re-Brand of our Microbe-Lift/Legacy Koi & Goldfish food and haven't stopped since!

After almost two decades of having the #1 requested brand name of Pond and Water Gardens products it was time for a FRESH NEW LOOK!

This project is over 2 years in the making from conceptualizing to finalizing the artwork for all of our products in each of their sizes. The new look will modernize our footprint for all Microbe-Lift customers. The best technology in the business now has the best look in the business!

Microbe-Lift Products are now Enforced by Our MAP Policy!



Ecological Laboratories INC.
Providing Aquatic Solutions Since 1976



www.MicrobeLift.com

| Water **Artisans** |



Water Artisans of the Year Winners

The water gardening industry's annual best of the best

by **Jordan Morris,**
Editor, POND Trade magazine

In a year that kicked off with an unprecedented sense of optimism, 2020 quickly let us down in a lot of different ways. "Good riddance!" we cried in December, as we bid adieu to a year riddled with isolation, hardship and disappointment.

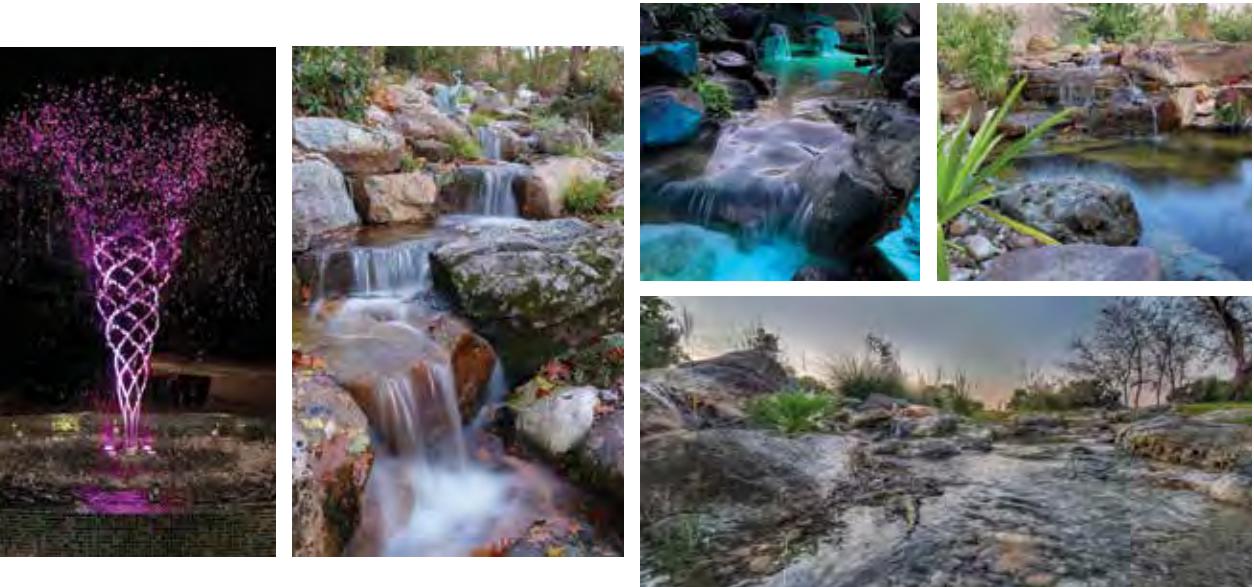
Well, we've got good news. 2020 wasn't all bad. As you will see in the following pages, for many players in the pond and water garden industry, 2020 was a revival. More collective time spent at home meant more people were enjoying their homes and seeking ways to enhance their living experience — particularly outdoors. This led to a jump in pond and water feature clients, a flurry of business for aquatic contractors and the unveiling of some of the biggest "wow-factor" projects we have ever seen.

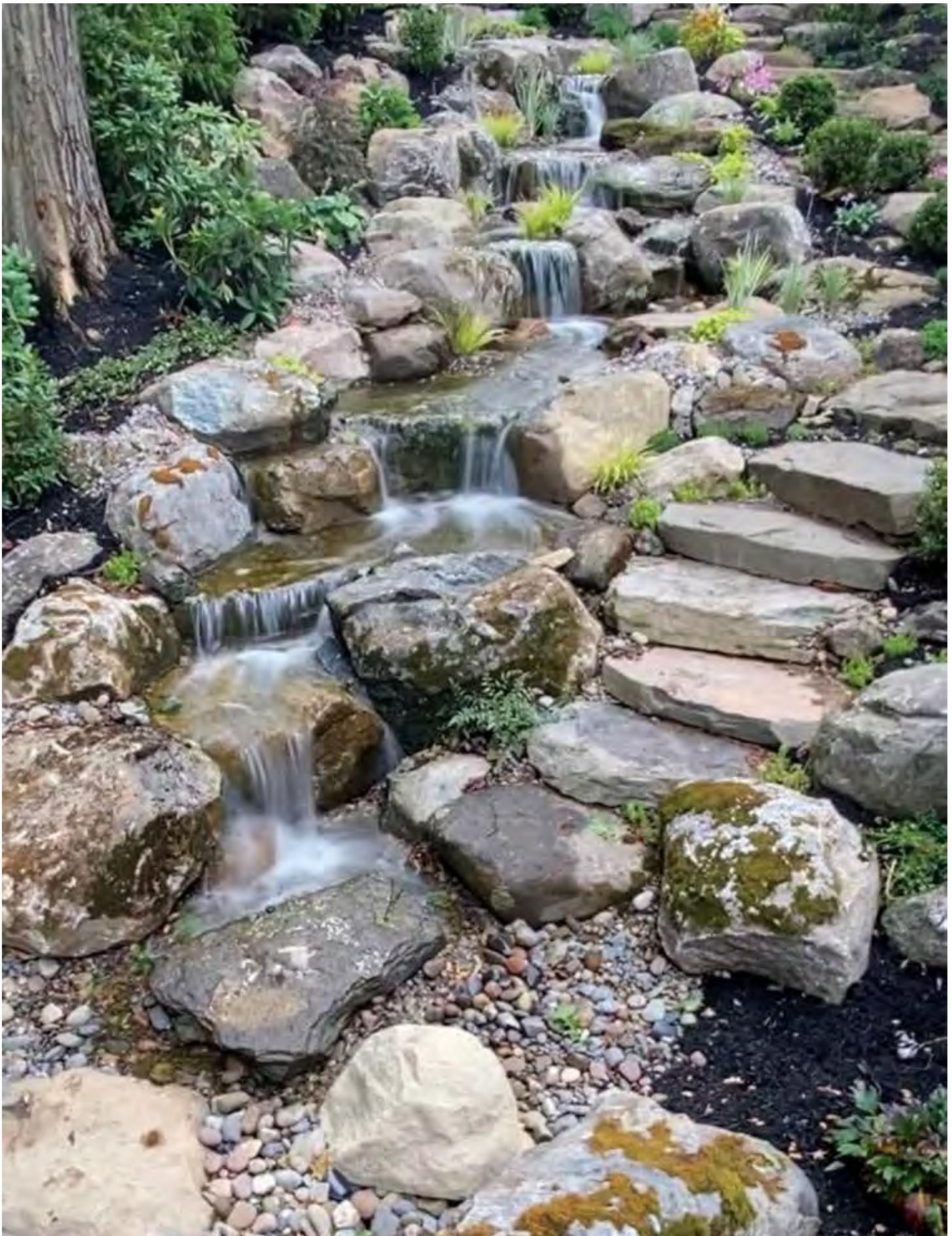
So, while much of 2020 was a victim of mass cancellations, the Water Artisans of the Year contest

surged on with some of the stiffest competition to date. We were thrilled to welcome contestants from all over the globe, from Australia to the United Kingdom. Public health limitations prevented us from announcing the winners at the annual Water Garden Expo as in years past, so for this year's trophy winners, the celebrating starts now.

Per the usual drill, we collected project submissions in five categories and presented them to this year's independent judging panel with no brand names or contractors' identities revealed. (Meet the judges on pg. 21!) This year's categories were Most Naturalistic, Best Pondless, Best Under \$15k, and new this year — Ponds by Night and Best Fountains & Formal Features.

We required a \$25 fee with every submission, with all proceeds donated to St. Jude Children's Research Hospital, an award-winning charity that provides cutting-edge treatment to children without requiring payment. ☀





Tim Dille

Tim Dille is the lead designer and installation foreman at Garden State Koi, a full-service retail, maintenance, installation and wholesale pond store in Warwick, New York. Tim has been installing ponds, streams and waterfalls for more than 15 years, with more than 500 water features in the ground.



Anyone familiar with New York City knows that if you head northeast of Manhattan, across the Harlem River, north of Queens, and across the East River, odds are you're headed to a Yankees game, or perhaps the Bronx Zoo.

What you would never expect is to encounter this majestic 60-foot pondless waterfall that graces the backyard of homeowners Liliya and Ilya Lotsvin, who dubbed it their very own "Fairytale Forest." The cascading water, natural plantings and custom steppingstones create a welcome new look and feel for this remote corner of the Bronx.

Tim Dille commissioned the project in the spring just as the Coronavirus began its initial surge. The pandemic didn't stand a chance against the workmanship of Dille and his team, proving that the Bronx is an unlikely, yet surprisingly inviting setting for their naturalistic magic.





Russell Owen

Russell Owen of Anything Wet has been building and maintaining ponds for 17 years in New South Wales, Australia. He has a passion for all things water and enjoys pushing the known design boundaries. Russell is a licensed landscaper, Master Certified Aquascape Contractor and OASE commercial preferred installer.

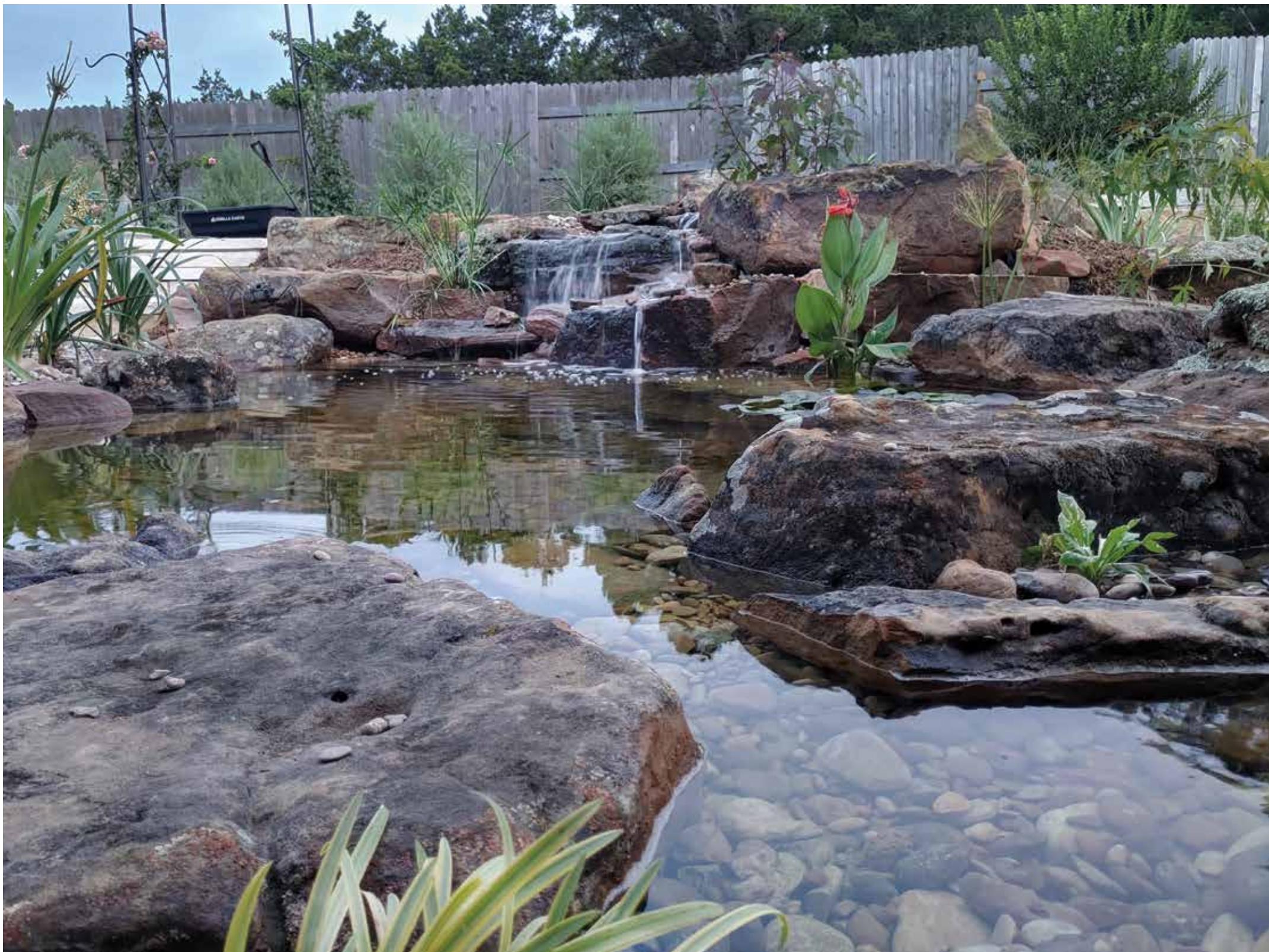


When Russell Owen, the Australian proprietor of Anything Wet, was commissioned to build a water feature for a shopping center called Fountain Plaza, the bar was already set remarkably high.

"We just wanted the fountain to be worthy of the name!" Owen said.

By the time he was finished designing, building and installing this artistic retail centerpiece, Owen's modest goal of "worthy" had been blown out of the water. With full digital multiplex (DMX) programmable pump patterns and lighting options, this one-of-a-kind rotating center fountain and custom manifolds work perfectly in sync to manipulate the water flow. Window shopping now takes a backseat to the enthralling theatrics of this aquatic attraction that puts the "Oz" in Oz, with local parents making a habit of bringing their children "over the rainbow" just to see it!





Eric Arnston

Eric Arnston started Stonebridge Pond and Waterfall Company, a design-build landscape business in Austin, Texas, in 2003. Eventually, he followed his aquatic intuition and made the switch to strictly water features in 2018. He is an artist at heart who enjoys using natural elements to their fullest potential.

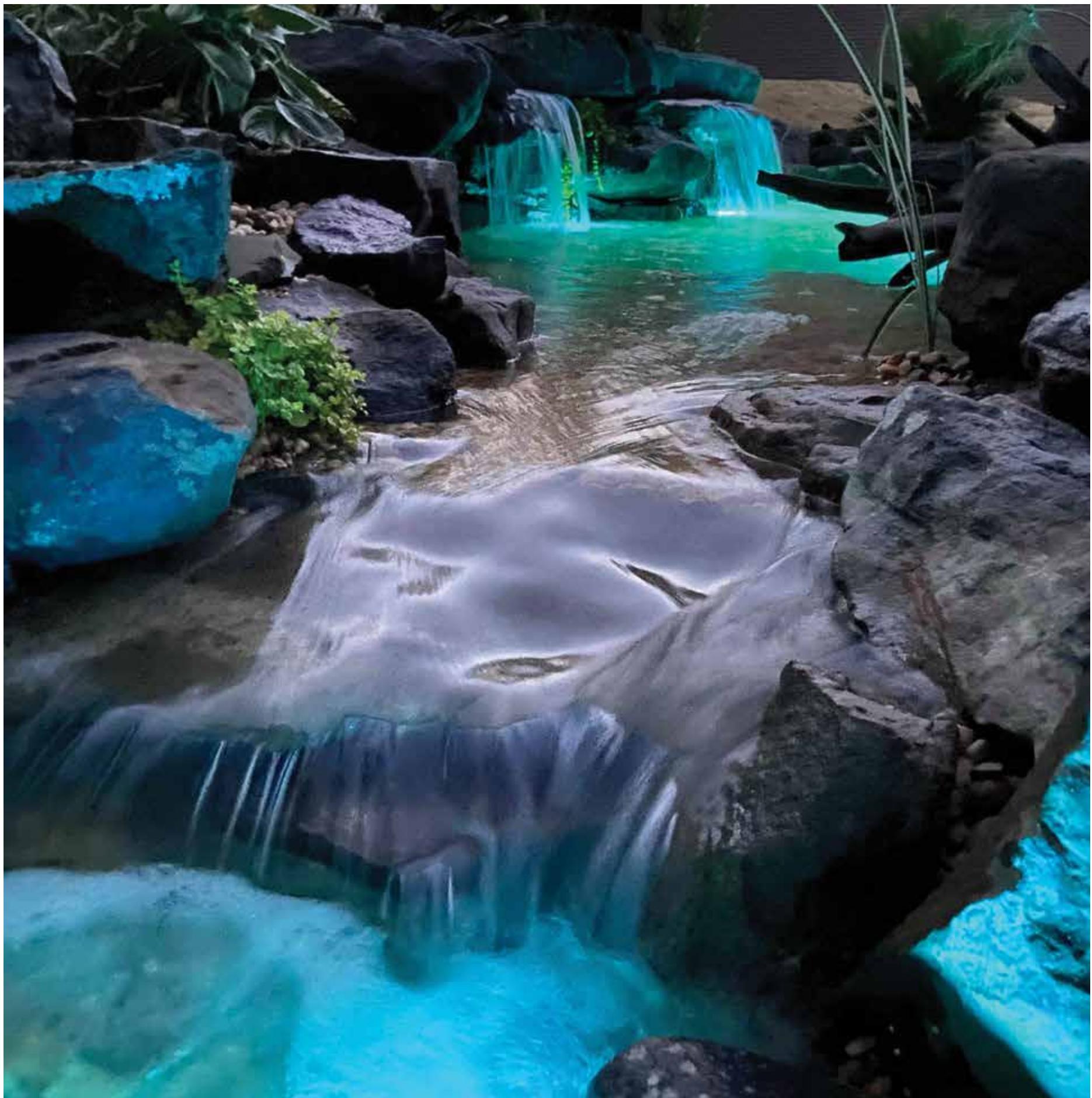


Weathered limestone is a go-to medium for many aquatic architects as they design and build rock-heavy features, but its price tag doesn't jive with every customer. To accommodate the more modest budget, Eric Arnston and his colleagues at Stonebridge Pond and Waterfall Company decided to sub in sandstone moss rock.

"It was a delight to use sandstone on this backyard pond project," Arnston said.

The sandstone perfectly complements the surrounding Texas terrain as the primary medium for this not-so-modest 12-by-15-foot koi pond. At 2 feet deep, it features two oversized fish caves and a custom intake bay that maximizes fish safety and minimizes maintenance costs. To his client's delight, the savings doesn't stop at initial construction and extends years into this feature's bright future.





Christopher Bell

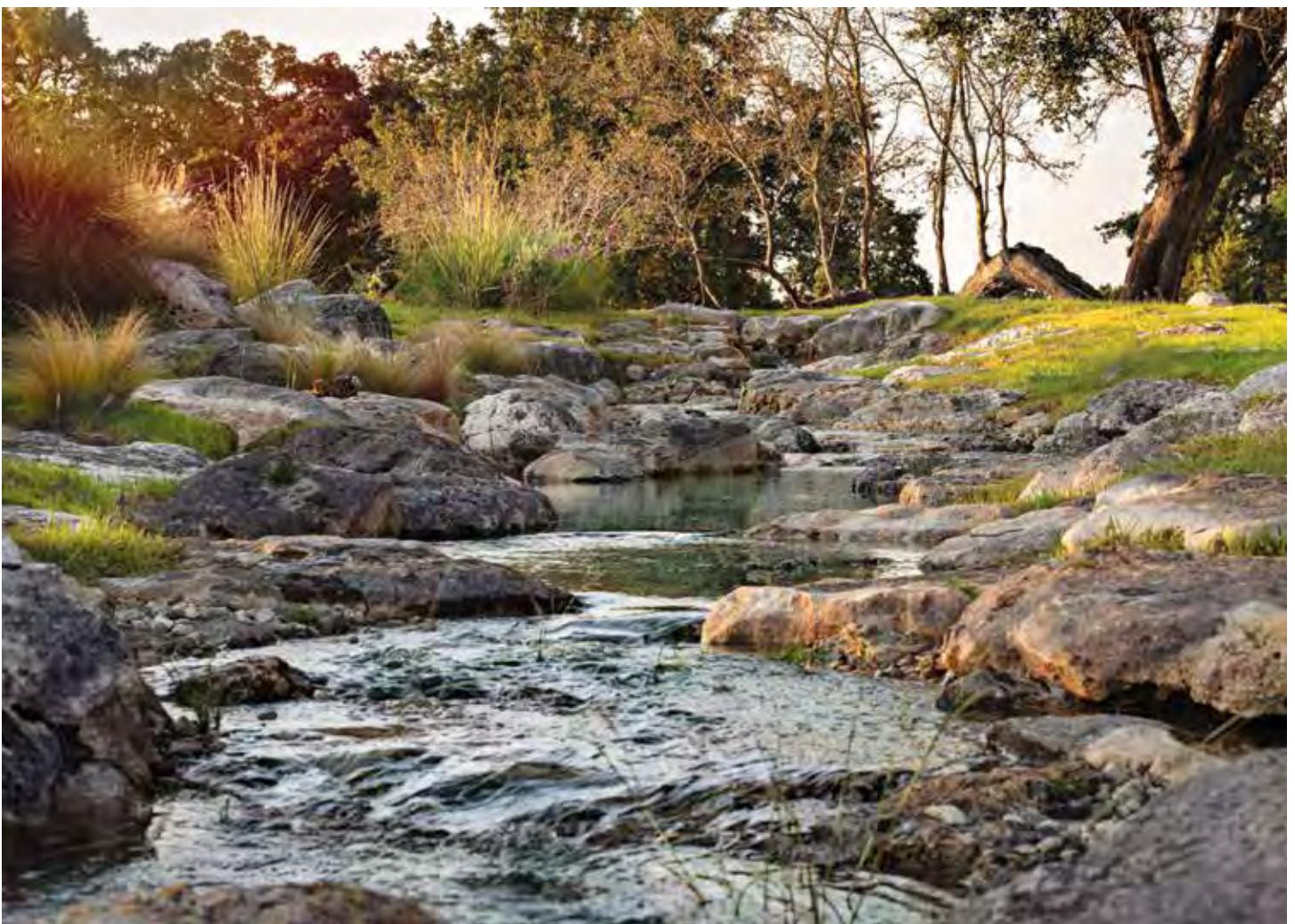
Christopher Paul Bell is an award-winning water feature and natural stone wall artisan. He is the owner and operator of Bell Ponds & Patios, with more than 25 years of experience in the field. He loves that after so many years, there is still always so much to learn.



There are ponds built for enjoyment around the clock, and then there are ponds that appear as though they were specifically intended to be a late-night destination. The inaugural winner in this category, Christopher Bell led the construction of this inviting Virginia backyard escape adorned with Atlantic Water Gardens multicolor changing lighting. What happened next is like a scene out of a fantasy dream.

Grotto-style, handcrafted waterfalls with elongated vanishing edges create the essence of an exotic night dive through mystical underwater caves. One can actually manage to disappear beneath the falls while interacting with the sprightly koi that call this waterscape home. A handpicked collection of complementary plantings provide the finishing touches to this private nighttime concert of water's finest sights and sounds.





John Schwarzlose

John Schwarzlose is a third-generation water feature builder and owner of Freshwater Ecosystems based in Austin, Texas. Freshwater Ecosystems' mission is to provide landowners and clients the utmost beauty and natural designs for ponds, creeks and waterfalls, using the Texas Hill Country for inspiration.



Where the American Southeast meets the Southwest lies Texas Hill Country, with a characteristically remote countryside that has recently become a hot spot for suburban neighborhoods and affluent retirement communities. A common challenge for landscapers and waterscapers alike in this region is catering to the needs of new homeowners and developers while maintaining the indistinguishability of the surrounding hill country landscape.



This is precisely where John Schwarzlose and Freshwater Ecosystems seem to thrive. This 120-foot-long winding creek feature in Kendalia, Texas, recirculates water from a 1-acre pond at a rate of 300 gpm to maintain its pristine beauty. By sourcing the boulders on-site and integrating lots of native landscaping throughout the feature, Schwarzlose made it practically impossible to detect any human fingerprints on this naturalistic gem, which appears as though it has graced this very spot for centuries.



| The Judges |



WHY NOT PUMP PERFORMANCE THAT STANDS OUT FROM THE CROWD?

Amidst the crowd of ordinary pumps, one stands apart as exceptional—Nitto Kohki LA Series blowers provide unparalleled performance for koi pond and water garden applications. This is why they're the professional choice:

They last longer, especially in hot, humid climates.

Nitto Kohki aerators have one moving part per piston. Properly installed and maintained, they have an expected service life of 6+ years.

They run quieter, supporting the natural design of ponds.

Listened to a diaphragm pump lately? In contrast, linear-piston LA aerators have about as much ambient noise as a light ballast.

Their cost-of-ownership is lower.

LA Series blowers consume far less energy—have only 50-60% of the line current requirements of diaphragm pumps.

Nitto Kohki aerators better leverage filtration capability, increase the fish handling capability of existing ponds, and minimize the risk to valuable koi collections. They're the best selection when building a new pond—as well as when you're looking to add quality and reliability to your existing pond. When it comes to selecting the best, it's as simple as 1-2-3.



 **NITTO KOHKI**

Call 800 843 6336, e-mail info@NittoKohki.com, or visit NittoKohki.com for more on LA Series blowers.

Meet the Judges

The fifth session of the Supreme Stream Court

by Jordan Morris,

Editor, POND Trade magazine

This year's submissions were presented blindly to a panel of seven industry experts to determine winners and runners-up in five categories (Best Pondless, Most Naturalistic, Best Under \$15k, Ponds by Night, and Fountains & Formal Features).

In order to be considered eligible, projects must have been completed between Nov. 1, 2019 and Nov. 1, 2020. We were happy to accept multiple entries from the same contractor; however, each project could only be submitted in one category for consideration.

Last year's winners in the Best Hardscapes Combo (Shane Hemphill) and Most Naturalistic (Weston Zimmerman) categories agreed to forgo participating this year as contestants and instead gaveled up to lend their expertise alongside five other well-known builders, designers and business professionals from across the industry.

Shane Hemphill is co-owner of Art of the Yard based in Littleton, Colorado. He wowed last year's judges with the iconic, artistic elements that blended together in his formal hardscape and waterscape feature. Hemphill has been building one-of-a-kind works of art for more than 20 years and was the recipient of the 2018 Atlantic Professional Contractor of the Year award.

featherrock
BOULDERS • VENEER • GRAVEL • FIREPIT ROCK
Lightweight pumice rock from California • Easily carved & manipulated
Perfect for ponds, waterfalls, and any other water feature projects.

Above project by Matthew Giampietro of Waterfalls Fountains & Gardens Inc.
featherrock.com • sales@featherrock.com
800-423-3037 • 818-882-0300 ext. 16

Keep the **green** on the grass, not in your **pond**.
Maintain your pond safely and effectively!

AquaSphere® PRO
Veterinarian approved and safe for fish, livestock, pets, plants and humans.

FREE CUSTOM TREATMENT PLAN
HealthyPonds.com

- All-natural beneficial bacteria
- Reduce sludge buildup and odor
- Natural alternative to chemicals
- Patented 30-day time-release technology
- Improve water quality and clarity

Enter code:
FIRSTTIME20
at checkout
Calling in? Mention this ad for your discount!
20% OFF
Your first order

HealthyPonds.com | 1.877.948.0303

Weston Zimmerman of Tussey Landscaping upsold a mystical pondless feature as an add-on to an existing project, and it ended up putting him over the top in last year's contest. He has a passion for the creative aspect of building water features and credits living in rural Pennsylvania for his talent in naturalistic design.

Paul Holdeman is co-owner of the Pond Gnome, whose mission is to help replace natural oases that once played a huge role in providing healthy water for wildlife in the pre-urbanized Arizona desert. Holdeman and his wife, Barbi, were recipients of the 2019 Aquascape Conservationist of the Year award.

Frayne McAtee is the director of sales for distribution and commercial at OASE North America. He has more than 27 years of experience in the water feature and fountain industry with extensive knowledge in both operating small businesses and working within international corporations. McAtee is based in Seattle, Washington.

Kip Northrup is the founder and president of Blue Thumb in Saginaw, Michigan, a leading manufacturer of professional-grade water feature equipment for ponds, waterfalls and fountain kits. He has been in the industry for more than 25 years and frequently speaks at various events about fountains, ponds and waterfall systems.

Gerard Touhey, owner of Waterfeatures by Gerard in Wilson, Pennsylvania, came to the United States from Ireland in 1998 with \$400 in his pocket and started his first pond business. He became a Certified Aquascape Contractor in 2004 and has since built hundreds of ponds, becoming a household name in the pond industry.

Carolyn Weise of Ecological Laboratories in Cape Coral, Florida, is the author of ABC's of Ponds, A Pond Primer and a frequent contributor to water gardening publications. She has held prominent roles in many industry organizations, including the Mid-Atlantic Koi Club, the Cape Coral Friends of Wildlife and the Southwest Florida Sportsman's Association. ☀

Runners-Up



Runners-Up

Second place never looked so good

by **Jordan Morris**,
Editor, POND Trade magazine

Instead of "honorable mentions," we'd prefer to call these projects silver medalists. Second place was a hard-fought battle again this year, with just a couple of votes separating the winners from these respectable runners-up.

POND Trade magazine hosts the Water Artisans of the Year contest on an annual basis. It is the pond and water-garden industry's only independent, unsponsored annual competition that levels the playing field for all contractors, regardless of company size or affiliation. Projects are judged by an independent panel (see pg. 21!) with no knowledge of the applicants' identities. Each entry requires a \$25 donation to St. Jude Children's Research Hospital. This year, we were proud to donate almost \$1,500 on behalf of some of the most elite talent in the pond and water garden industry.

Do you have what it takes to be a Water Artisan of the Year? As the featured projects in this issue stimulate your muse, start saving photos from your most impressive 2021 projects. The eligibility period has already begun, and we will start accepting entries for the sixth annual contest this fall.

Show us what you've got! Next thing you know, you could see your own artistry gracing these pages next year. ☀

Bassinger Fisheries Koi & Goldfish Farm



Healthiest Koi and Goldfish in the USA!

- 100% Ulcer Free Farm
 - 100% Virus Free Farm
 - No New Fish Introduced in 17 years
- 100% Satisfaction Guarantee**



Rated Best All Around American Koi by International Koi Judge

- Brilliant Colors
- Stunning Patterns
- Great Selection of Different Koi and Butterfly Koi



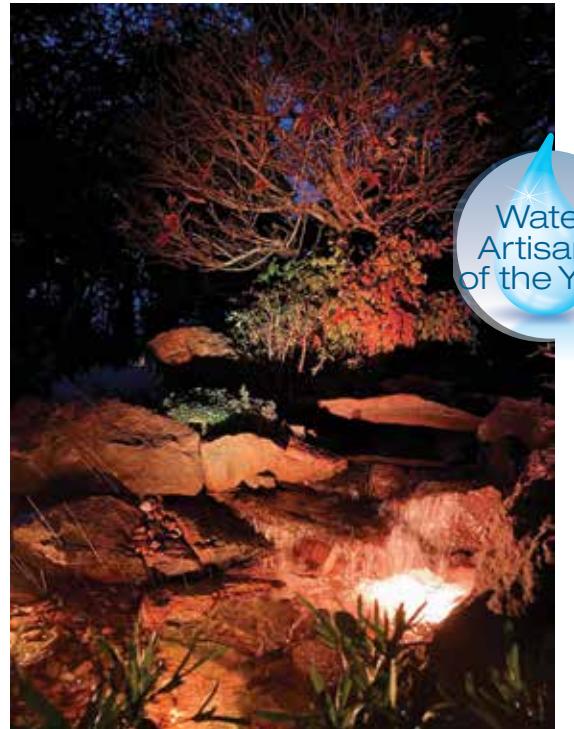
One of two locations

Visit our new website at:
www.BassingerKoiFarm.com

817-366-1746
325-728-4237 Fax
thekoiman@sbcglobal.net

New Customer Special!

50% off
(on first \$500 order)



Water
Artisans
of the Year

Runner-up **Ponds by Night**

Mark Wilson
Any Pond Limited
www.anypond.com

Across the Big Pond, Mark Wilson officially extended the United Kingdom's pond season with this newly designed wildlife pond, which comes alive at night with four color-changing lights. This pond creates a warming feel day and night, with the added bonus of a bonfire effect from the continuously flowing water.



Water
Artisans
of the Year

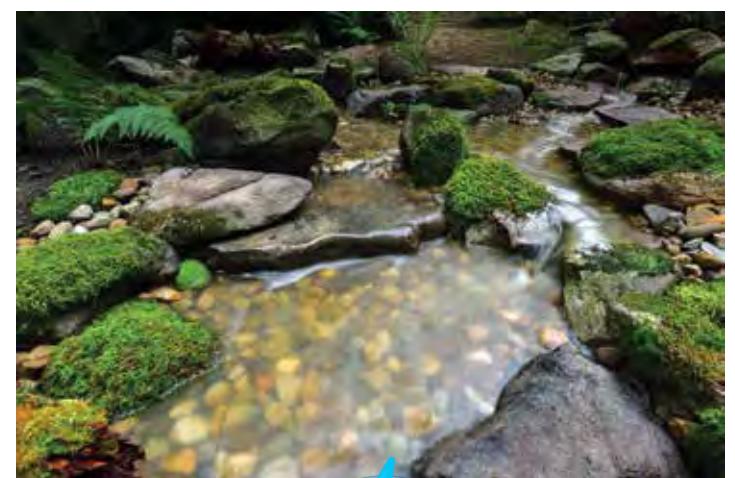


Runner-up **Most Naturalistic**



Tim Anderson
Aquatic Edge
www.aquaticedgeconsulting.com

Don't let your eyes fool you. This 12-foot pondless waterfall and stream were actually man-made and blended into a wooded backyard on top of a Pennsylvania mountain with rock, moss and ferns all harvested from the property. Crafted by Tim Anderson and the team at Aquatic Edge, this scene is so peaceful that it has become a front-row seat for local antbird watching.



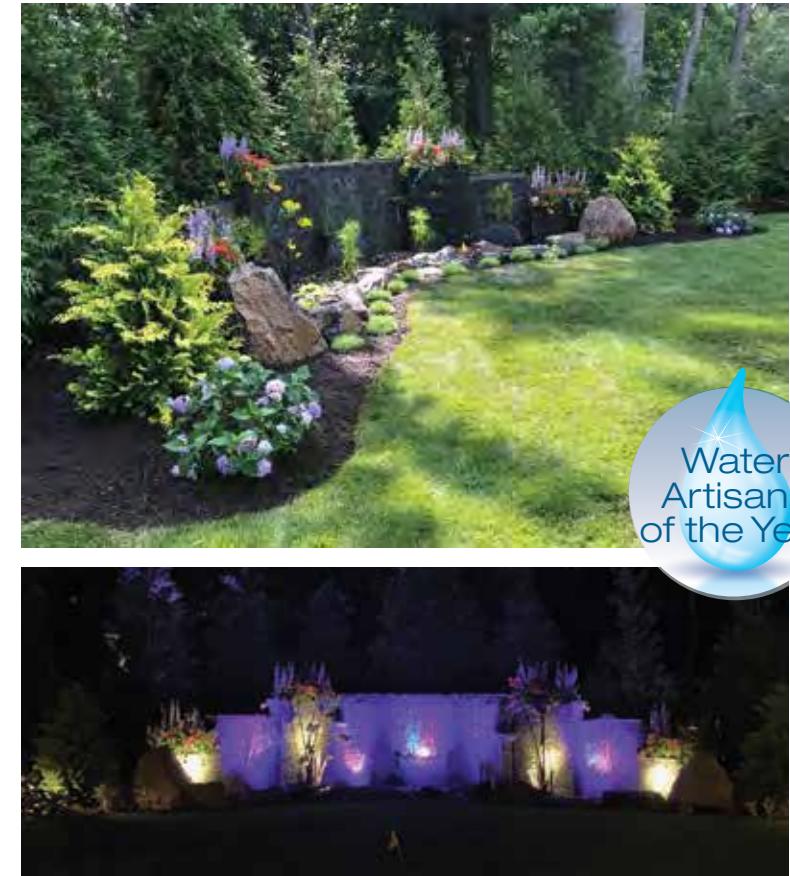
Water
Artisans
of the Year

Runner-up **Fountains/Formal Features**



Tom Dieck
Aquascapes East
www.aquascapeseast.com

Tom Dieck and the Aquascapes East team pushed the boundaries of outdoor design with this semi-formal fountainscape, which serves as a natural haven in this otherwise contemporary backyard. Sit around a blazing fire and just savor the way the water dances down the stacked slate walls and spheres while underwater lights slowly fade through a spectrum of colors.



Water
Artisans
of the Year



Runner-up **Best Pondless**

Landon Malave
LCM Landscape & Design
www.lcmlandscape.com

This large-scale pondless waterfall drops 14 feet from top to bottom, making it the talk of the Denver-area Castle Pines neighborhood. Landon Malave incorporated an existing 35-foot stream into a preexisting pondless basin. These exquisite waterfalls can be seen and heard from the patio, house and gazebo that looks down onto the new prized pondless water feature.

Water
Artisans
of the Year



**Runner-up
Under \$15k**

Bobby Kenyon

C.E. Pontz Sons
www.cePontzsons.com

Tucked within this charming wooded property in Southern Pennsylvania is a koi sanctuary, featuring an 8-foot stream, crashing waterfalls and glimmering pond. Bobby Kenyon and his C.E. Pontz Sons brothers added tons of moss, driftwood and aquatic plants to make it blend seamlessly into the surrounding environment.





ShinMaywa

Brighten Your Future

- Widest Operating Range
- Highest Overall Efficiency
- Lowest Lifetime Cost

ShinMaywa pumps deliver best in class performance for your water garden project. Visit www.Shinmaywasales.com and see how.

Distributed Exclusively By

www.ShinMaywaSales.com

Laguna



Beautifully simple water gardening



To learn more, contact our Dealer Support Team at **800-353-3444**
or email us at newcustomers@rchagen.com

 HAGEN
GROUP®

© 2018 by Rolf C. Hagen Inc. Laguna is a registered trademark of Rolf C. Hagen Inc.



This recreation pond is 6 feet deep and features a stone bridge, several sitting areas and a fire pit.

Pond Construction

Ponds & Recreation

Add a slice of wildlife to a natural ecosystem

by Alan Decker,
Decker's Pondscapes

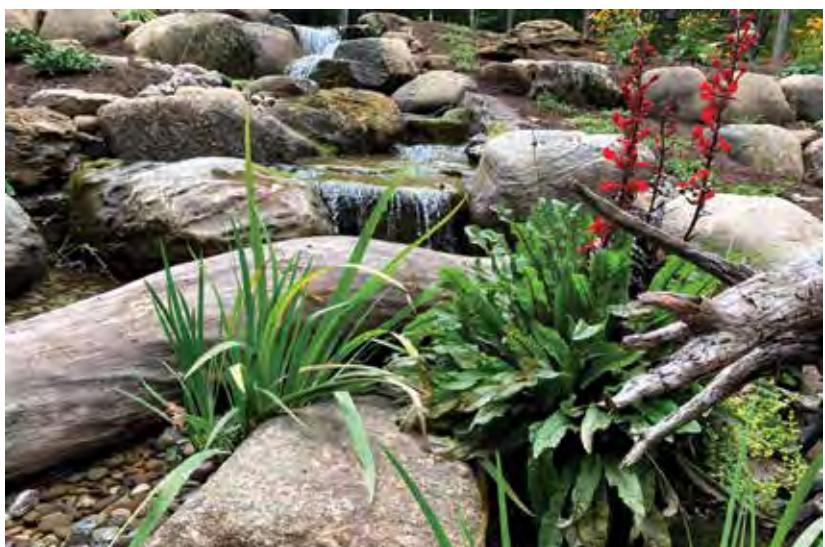
Recreation ponds are a sweet spot for us. Over the years, we have had much success designing and installing many of them. Recreation ponds can require a bit more planning compared to a traditional koi pond, but the profits are well worth the effort.

Set Expectations

We have a process we follow to make sure our clients understand exactly what a recreation pond is and what to expect. It is important to prequalify the customer, as the price tag of a recreation pond is much different from that of an average koi pond. This initial conversation always starts with a question like, "What made you decide you wanted a recreation pond?"

Most of the time, they had fallen in love with the concept after watching footage on YouTube. After all, how could you not? Other questions I like to ask include: How do you see your family using the pond? Do you like the outdoors — camping, going to lakes and hiking? The answers to these questions will allow you to assess their comfort level with swimming in a natural body of water. If it sounds like they want a chemical-based system, a recreation pond is not for them. After all, this is a natural ecosystem with wildlife!

Clients who are interested in recreation ponds need to fully understand what they are getting into. Set their expectations in the prequalification stage. It is important to discuss the nature of the ecosystem and the associated maintenance. Personally,



I love swimming in a natural setting. But if someone in the client's household wouldn't even wade in a lake, chances are they'll end up unhappy, because recreation ponds usually involve swimming with frogs and other creatures that make up an aquatic ecosystem. Of course, when your recreation pond is new and young, it will go through a balancing act like any other ecosystem pond. As we all know, ponds get better with age.

Negotiate Pricing

For the next step, let's talk budget. Recreation ponds are an investment and cost more than a liner swimming pool. The cost of a recreation pond is more in line with that of a gunite pool, but it still tends to be higher. Budget discussions begin with explaining the "starting at" investment involved with recreation ponds.

Once clients have a realistic number in mind and are willing to go to the next step, we discuss a site visit. We charge for on-site consultations and planning. After all, if they aren't willing to pay \$500 to \$2,000 for a site visit, then it's unlikely that they will invest in a recreation pond.

If we get pushback with a consultation, I invite them to come and see our personal recreation pond in real time and even bring their kids and family. This gives them a deeper understanding and helps them decide one way or the other if a recreation pond is for them.

Everyone thinks a recreation pond needs to be huge. A good entry-level recreation pond doesn't have to break the bank. A sweet spot for us has been 25 by 18 feet, and either 4 or 6 feet deep. Pricing for a feature this size, including a wetland, skim cove and pond with no additional stream or waterfall area, starts at \$67,000. For us, a three-man crew can build this feature in about seven working days.

I like drawing basic pond plans,

because it seems to clear up any doubt surrounding what the client is getting into. For us, it always seems to expand into sitting areas, fire pits and a whole outdoor living space. Adding these elements to make the recreation pond interactive always helps to seal the deal.

to be sturdy. If we are building a plunge area, I like to use slab rocks that stay tight to the bank but are solid and won't move. If people are going to be jumping in the pond, you wouldn't want a boulder sticking out too far.

Steps are something we always include



When wetlands are young, they can appear bare. Give them a year or two, and they'll look more natural.

Everyone thinks a recreation pond needs to be huge. A good entry-level recreation pond doesn't have to break the bank. A sweet spot for us has been 25 by 18 feet, and either 4 or 6 feet deep.

Ensure Best Practices

We as designers are always thinking about aesthetics, but we also need to think about durability and safety. During the planning process, it's important to talk with the client about how they want to use their pond. Taking these elements into consideration transfers over to how we build the pond so that it lasts them a lifetime. For instance, if someone likes to climb all over the boulders, they need

for the more mature client. We want all ages to be able to enjoy it. Beach areas are fun for everyone, especially young children. Our clients with recreation pond tend to have a love for the outdoors. They do not want to swim in chemical-based water and want their families to experience nature. Depths of these ponds range from 4 to 8 feet, which means we want to get that water on the bottom moving. We generally jet the deep areas

Opposite page, clockwise: A boardwalk (top and middle right) can be a great accent piece over a skim cove. It can also be a great way to transition over a body of water. Slab steps (bottom, right) are essential for recreation ponds. Everyone loves to have a place to sit and relax. Infinity-edge waterfalls (bottom, left) create a whole different element. This is a must have if the surrounding grade allows it. Naturalizing a skim cove (middle, left) is important. A lot of the time, we like to make it look like a stream. You can achieve this by incorporating extra boulders.

DISCOUNT POND SUPPLIES

www.discountpond.com

	<ul style="list-style-type: none"> • Fully Stocked Warehouse • Most orders shipped within 24 hours • Competitive Pricing • Nationwide Shipping <p>Order Fulfillment Services Available</p> <p>WHOLESALE ONLY to trade-related retailers... we do NOT sell directly to YOUR customers.</p> <p>DPS DISCOUNT POND SUPPLIES, INC.</p>	

800-979-0999 ~ sales@discountpondinc.com
P.O. Box 129 Lebanon VA 24266

and sometimes add aeration.

When designing a recreation pond, it's key to make sure your wetland is a minimum of 30% of the pond surface area. A 25-by-18 pond is 450 square feet, making your ideal wetland approximately 135 square feet. Remember, it's best

Edge treatments are also a huge part of making any water feature look natural. Outcroppings are so important, but do not overdo it. Leave gaps where you can plant terrestrial plants. Aquatic plants are a great way to soften edges from inside the pond.

to always round up. Calculating filtration based on this principle, we have been able to achieve exceptional water quality. Adding aquatic plants to the wetland always helps reduce the nutrient load, especially if the recreation pond includes fish. Do not skimp on your wetland! It's never worth it.

Add Finishing Touches

Skim coves are a must to ease the level of maintenance on the larger ponds. The client needs to enjoy the pond and not have to tend to it every single day. This also allows for a larger pump suction area. We always install external pumps when people plan on swimming in the pond.

Edge treatments are also a huge part of making any water feature look natural. Outcroppings are so important, but do not overdo it. Leave gaps where you can plant terrestrial plants. Aquatic plants are a great way to soften edges from inside the pond.

We no longer do a lot of landscaping, but I like to plant around our ponds, because we have a better idea

of how we want it to look a couple of years down the road. I always include an underwater light package in our recreation ponds, which can extend a clients' enjoyment beyond work hours and into the evening.

Recreation ponds have become a large part of our success over the

last five years. There are many new clients out there who are ready and waiting to enjoy recreation ponds. Prequalifying clients, setting expectations and carefully planning and building the pond can help you realize your own success with recreation ponds as well. ☀



Edge treatments are so important to soften up a pond's perimeter. You can use terrestrial and aquatic plants.

About the Author

Alan Decker is the president of Decker's Pondscapes in upstate New York, which is celebrating 31 years in the industry. In 1990, at age 21, he started a landscape business by focusing on hardscapes, plantings and hydroseeding. After receiving multiple catalogs from Aquascape, he decided to go to a seminar in 1998 and became hooked. Alan is the recipient of the 2016 Aquascape Artist of the Year award. He traveled to Africa in 2017 and 2019 for rainwater harvesting, built a pond at a zoo in Australia, and participated in the Shaquille O'Neal build outside Atlanta in 2020. He has a love for nature and enjoys sharing his craft with clients, friends and colleagues.



LARGEST INVENTORY in the USA

Well over 100,000 Brass Fixtures **IN STOCK!**

Always in Stock

Buy Direct & Save

UL/ETL Listed

Lifetime Warranty

Same Day Shipping

**MAKE MORE MONEY
BUY DIRECT**



EcoPro
Spotlight



PinnaclePro
Mini Spotlight

AMP
PROFESSIONAL LANDSCAPE LIGHTING

Become an AMP Pro today / amplighting.com/pro / 813.978.3900



Innovation,

Quality, Experience

H2O'h Yeah!

3-in-1 Filtration The right combination for a clean pond



For ponds up to 10,000 gallons

EasyPro Skid Mount Deluxe Pond Filtration Systems

Deluxe filtration systems combine:

- 1 A pressurized bead filter
- 2 An external self priming pump
- 3 A UV clarifier

Completely plumbed, ready to install "plug and go" filter system! Simply plumb the incoming and outgoing water lines and it's ready to go!



Solutions for every need Treatments for nearly every water issue

Eliminate the guesswork Simple dosages and applications



All natural Eco-Friendly labeled products are safe for use around pets, fish, plants and wildlife.



Made in the USA Proudly manufactured in the USA.

Retail ready Full color packaging unites our products as a family brand. Solid margins are built-in to our products with the value of a lower "cost-per-treatment" on the entire EasyPro water treatment lineup.

Spring Into Summer with EasyPro!

All Season Liquid Pond Bacteria

A proven blend of beneficial pond bacteria, which "naturally" promotes a healthy ecologically balanced ecosystem by reducing toxins, problem nutrients and murky water in water gardens and koi ponds.

Maintains a healthy, balanced ecosystem and reduces pond maintenance.

Reduces pond maintenance and improves water clarity without the smell of other brands.



800-448-3873

New! Tranquil Décor Real Stone Fountains

New textures and new looks!

Bring the relaxing sound of water to your creations with a fountain from EasyPro



Available Late Spring 2021

Levitation Fountain

A unique, low-profile work of art that appears to float above the splash zone

Complete kit includes Levitation stone fountain, basin with support blocks, pump, plumbing kit, light kit.



Traid Fountain

Left, right and center - the best things come in threes!

Three independent waterflows are ready to take center stage in your next installation.



Check out our full line of Tranquil Décor fountains and basalts

New! Pond & waterfall pumps for larger jobs



Asynchronous mag drive pumps - where power and efficiency meet!



- Seven models up to 9460 gph for all large and extra large water features
- Very quiet and energy efficient
- Fully submersible
- No oil — fish safe!

- Can be run vertically or horizontally
- Removable prefilter screen
- Epoxy filled 115v motors
- Two year warranty



2021 Catalogs are Here!

Visit our website to find a distributor near you & to request our 2021 catalogs.

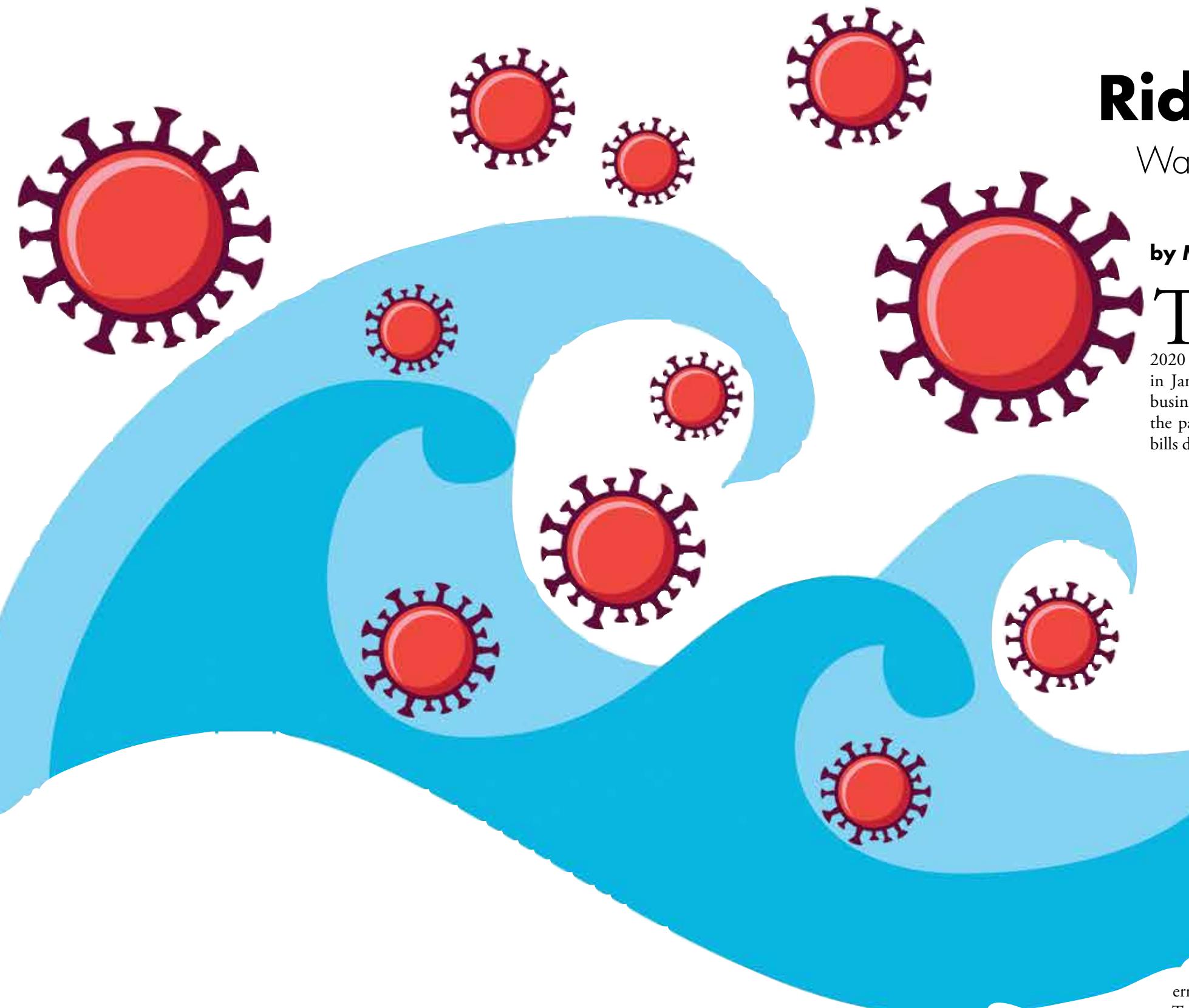
800-448-3873 easypopro.com



Let our decades of experience help you land your next project!



EASYPRO.COM



Ride the Pandemic Wave

Wading through the Paycheck Protection Program

by Mark E. Battersby

The Paycheck Protection Program (PPP) has been a godsend for many pond business owners. Both the original draw in April 2020 and the recently announced second draw in January 2021 were aimed at helping small businesses keep workers on the payroll and pay other bills during the pandemic.

There was some initial confusion about turning PPP loans into forgivable grants, and new guidance had to be disseminated.

Unfortunately, the Department of the Treasury and the Small Business Administration (SBA) continue to unearth PPP loan recipients who sought loan forgiveness erroneously.

Targeted audits aside, the IRS is reaping larger amounts of money from fewer targeted

businesses, thanks to better profiling and more savvy use of the government's limited resources.

What is the PPP?

The PPP is a critical component of the Coronavirus Aid, Relief and Economic Security (CARES) Act of 2020. Under both the first and second rounds of the PPP, loans would be forgiven if the recipient met certain criteria. Applicants have between eight and 24 weeks to use the funds, with 60% going toward payroll and the rest toward eligible expenses, such as rent and utilities.

The second round of loans are capped at \$2 million (compared to \$10 million in the first round) and limited to businesses with no more than 300 employees (compared to 500 in the first round). The business must also demonstrate at least a 25% drop in revenue from the first quarter of 2019 to the same period in 2020.

PPP loans allow any forgiven amount to be ignored for federal tax purposes. And today, thanks to the new rules, a tax deduction is permitted even for expenses that result in a forgiven loan.

Most of the initial problems with the PPP program concerned the conditions of turning the loans into grants. PPP loan recipients must certify — not document — that "current economic uncertainty makes the loan request necessary to support ongoing operations." What's more, professionals seeking loan forgiveness are also required to certify that they "used the forgiveness amount of keep employees and make eligible mortgage interest, rent and utility payments."

While inaccurate certifications are punishable under criminal and civil law, how can anybody

under criminal and civil law, how can anybody certify to an uncertainty? And what is exactly meant by "necessary?" Ultimately, the courts will decide, but given the stakes, all borrowers can expect a review, whether a bare-minimum glance at your file or a deep-dive forensic audit.

Records, Records, Records

No business owner likes to hear the word "audit." In this case, in addition to SBA audits, borrowers must prepare for separate investigations by the Special Inspector General for Pandemic Recovery and reviews by the Pandemic Response Accountability Committee and the Congressional Oversight Commission — although these presumably will be directed toward borrowers of larger amounts.

A business that fails a PPP audit jeopardizes all or part of its eligibility for loan forgiveness and a second PPP loan. Furthermore, it potentially could face False Claim Act prosecution by the U.S. Department of Justice (DOJ). In the face of the threat posed by all these audits and reviews, surviving a PPP audit — or any audit, for that matter — obviously requires good recordkeeping.

Even if we have no intent to commit fraud, many of us fall short when it comes to documentation and paperwork. Businesses are often cautioned to keep good records for tax purposes. In that same vein, those records could be crucial to forgiveness of a PPP loan.

Even if the business pays its taxes dutifully, it may be penalized for lacking documentation. After all, the law requires every taxpayer to retain all records used when preparing tax returns. Tax records should generally be kept for three years from the date the return is filed.

Recordkeeping for PPP

When it comes to the PPP, a good recordkeeping strategy might include depositing the funds into a separate bank account.

Otherwise, all expenses should be documented — utility bills, rent statements, leases, cancelled checks, bank statements tracing any electronic transfers and bills for other expenses that qualify

for loan forgiveness, such as health insurance. Each of these sums should be consistent with the amounts you include in the loan forgiveness application. Careful judgement is required to project revenue and expenses during these uncertain times, especially as you reopen and ramp up your business prior to the economy returning to pre-pandemic levels.

Auditors consider contemporaneous documentation — or an accurate written record showing how the funds were applied — to be more persuasive than information created once an audit or review begins. In other words, it is better to organize records and documents now rather than attempt to create them later.

Among your supporting PPP documents should be payroll verification to demonstrate funds used for payroll, mortgage interest, lease and utility payments, invoices for mortgage interest, lease payments, utility services, lease agreements stating amount due, and general ledger entries showing use of PPP funds.

When it comes to showing employee and compensation levels from periods beginning Feb. 15, 2020 through the end of the period after the loan was made, make sure to include payment records such as payroll tax reports, employee benefit records, compensation records, calculation of full-time equivalents and pay rates, and documentation to support headcount changes.

Any remaining cash surpluses should be supported by documenting the use of those funds beyond the period analyzed. Naturally, the underlying supporting documents should provide enough support for the certification.

Smaller Fish to Fry

Although the threat of an audit is a major concern, the SBA's job of wading through the backlog of applications, removing duplicates from borrowers that applied at more than one bank and sorting out the confusion in Congress continues to slow the process. However, don't forget that the IRS, an agency that appears increasingly determined to find and audit all businesses, may have its own separate look at your application.

Computers are less forgiving than humans, so any pond professional who hopes to survive and thrive under the new algorithm-based IRS should follow a few basic guidelines. Always be prepared for scrutiny. Understanding the tax rules and potential red flags is essential to knowing what information should be saved and for how long. Be prepared to move quickly. Information Document Requests (IDRs) and face-to-face audits now adhere to shockingly fast timelines, so have a plan of action. Build a relationship with an accountant who can step in quickly when you get the dreaded IRS audit notice.

Remember, consistency is key. Inconsistencies in paperwork can happen even to honest people when the accounting is not handled professionally. The IRS, however, is becoming more prone to seeing these discrepancies as fraud until proven otherwise.

Know Your Rights

The Taxpayer Bill of Rights, which is part of the IRS Restructuring and Reform Act of 1998, requires the IRS to provide a written statement detailing the taxpayer's rights and the agency's obligations throughout the audit, appeals, refund and collection processes.

Among your most important rights is to choose whether to answer an auditor's questions directly or be represented by a financial professional. If you hire an accountant, make sure you have a detailed plan for the audit meeting. Should it be held in the accountant's office, where all the working documents are easily accessible? Should it take place at your place of business, where all the records are kept? This could demonstrate to the auditor that there is nothing to hide, and that the operation is a legitimate one. Or, should you, a manager or another representative trudge down to the auditor's office armed only with the specific documents and information requested? Not too surprisingly, it all depends on your situation, as there is no one right answer.

Get the Last Word

Until the business under audit agrees with the auditor, the appeals process for

audits — whether everyday, routine audits or a targeted PPP audits — remains open. Most importantly, from the time of initial screening for accuracy until the final appeal has been exhausted, mistakes in the favor of those being audited are discovered in about 25% of all cases.

The IRS is usually quite sympathetic to honest mistakes and more than willing to discuss underpayments of taxes that may result from the many so-called gray areas in our tax rules. They'll be open to negotiate the amount of tax due on occasion.

However, they don't have patience for fraud.

Be Prepared

Honesty and clarity go a long way toward preventing, dealing with and surviving any audit. Naturally, every pond professional should have strategies for avoiding audits and dealing with auditors. A fallback position if those strategies were to fail should also be in place.

The PPP was intended to ensure all businesses had access to sufficient resources to keep workers employed while the operation weathered the Coronavirus pandemic. Borrowers should not be frightened by the government's warning that audits are inevitable. Instead, they should prepare now to ensure these limited benefits are not lost.

Beginning early, maintaining accurate documentation, assessing risks, considering the assessment criteria and preparing for a likely audit from any of a variety of sources can help every pond professional withstand the added scrutiny. The advice and assistance of a qualified professional is also an invaluable tool. **es**

With over 25 years of professional experience in the fields of taxes and finance enable Mr. Battersby to write on unique and topical subjects. Although no reputable professional should ever render specific advice at arm's length, he does craft unbiased, interesting, informative, and accurate articles. Mr. Battersby currently writes for publications in a variety of fields. His topical columns are syndicated in many publications each week. He also writes columns for trade magazines and has authored four books.

koismart.com
(561)408-2739

LARGE INVENTORY
FULL WAREHOUSE
We Stock Thousands of Items Ready-to-Ship

POND DESIGN
TECHNICAL QUESTIONS
COMPETITIVE PRICING
Our Experienced Staff Members are Here to Help You

SAME DAY SHIPPING
2pm EST Shipping Cut-Off Nationwide

f p G+ YouTube

West Palm Beach, FL

FIX POND LEAKS

Stock PondPro In Your Store Today

GUARANTEED
NOT TO CRACK, PEEL OR FLAKE

- 100% Liquid EPDM Rubber
- 5 Year unconditional warranty
- Withstands temps from -40° to 350°
- Unique curing process results in a chemical bond
- One coat application
- A true do-it-yourself product
- Waterproofs immediately upon application
- Safe for fish and plant life

5 YEAR WARRANTY

Pond Pro 2000®
855-788-5836
pondpro2000.com



| Koi Protection |

What's **Bugging** You?

Protect your koi from fish lice & anchor worm

by Carolyn Weise,
Ecological Laboratories Inc.

There are bugs — and then there are bugs when it comes to our koi. In this article, we are going to forget about the familiar Ich that every hobbyist thinks of first when their fish start flashing. We can also forget about the internal cestodes, like internal flukes and tapeworms — the ones that require Praziquantel to treat.

Today we will focus on the external, visible-to-the-naked-eye, crustacean type of bug and a few others that are often overlooked. We will look at two crustaceans that are both capable of killing fish right under our noses — the Argulus (fish lice) and the Lernea (anchor worm).

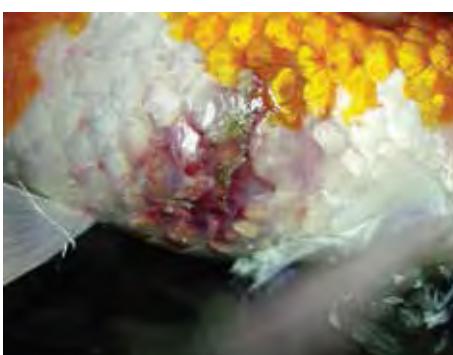
A Pond Pest Primer

I had never experienced Argulus or Lernea in a goldfish bowl as a child, nor did I see these crustaceans in my aquarium when I was a teenager. To me, crustaceans are ocean crabs, lobsters, crayfish, krill and so on. It wasn't until I started keeping koi in the early 1990s that a whole new world of surprises opened up. I learned how to use a microscope and do intraperitoneal injections without hitting any vital organs on my fish. A whole new world of knowledge was opening before me — veterinary care of my own fish.

One day I was taking a close look at my pond and found a few leeches. I didn't think leeches were a good thing, so I went to Pondinformer.com. "Plant leeches and predatory leeches are not harmful

to pond fish, and not all blood-sucking species are actually capable of using fish as their hosts."

Good news! But I kept reading. "There is one species of leech to watch out for if you have goldfish and koi, and that is the fish leech (*piscicola geometra*). These long, worm-like leeches are capable of



Infections are common once the protective outer barrier has been breached (top). Some koi react with capillary "bleeding" in fins and tails when stressed (bottom).

attaching themselves to fish and sucking blood from their host, which can lead to dangerous infections and stress. The adult leeches are around 2.5 centimeters long and often arrive to the pond attached to fish or inside pond plants. They're difficult

to catch, as they can attach themselves to any part of the fish to feed and often like to hide away within the gills and under the fins.

"The leeches, although unpleasant for the fish, are not deadly by themselves. The problem is the open wounds they leave, which can lead to nasty infections, both viral and bacterial. In terms of a leech's life cycle, this varies depending on the species, but the most common fish leech, *piscicola geometra*, has a 30-day life cycle. This relatively short cycle can be used to our advantage to help starve the leech and prevent the eggs from hatching and finding a meal — hence why a quarantine period is very effective."

So, there are leech traps, chemical agents to clean the pond and, perhaps, better filtration. But the key to no leeches is always prevention.

In fact, it turns out these pests were there because of detritus buildup. It was time to clean the pond. Even Pondinformer.com's No. 1 recommendation is "Clean up the sludge/muck in the bottom!"

What? The Muck?

But there's even more! I found small red worms in the filter. There were lots and lots of these. My stomach did flips until I learned they were nothing but Aquatic Midge larvae and the same type of bloodworm I used to feed my tropical fish (*Tubifex*). A new filter pad would also help, and using *Bacillus thuringiensis israelensis* (Bti) bacteria in the pond would get rid of the Aquatic Midge, mosquito and black fly larvae. At four or five years into the hobby, I had thought I



This catfish (top) is covered with fish lice. A closer look at fish lice (bottom) is provided through the lens of a microscope..

was a conditioned hobbyist.

When the company I had joined started manufacturing a lice and anchor worm treatment, I started researching these parasites. There are some notable differences between anchor worms and fish lice, although both are lethal to the pond fish. I dug into their life cycles, effects of temperature on each and how eggs remain at the bottom over the winter months. I needed to know everything about them. I learned that anchor worms look like small pieces of white threads hanging from the fish, with their heads firmly embedded into the skin beneath the scales. That should be easy enough to see when purchasing a new fish.

I also learned that fish lice are nearly translucent, but if you look carefully, they are quite visible — greenish or grayish, depending upon the color of fish, and disc shaped with two "eyes" on them. They tend to mass together in one or more areas on the fish, like the tail, gill area or dorsal. Where they bite into the fish, they leave an opportunity for Aeromonas or fungal infection to enter. Actually, both lice and anchor worm open the fish to infection, and both are capable of killing the fish. However, I had not seen or experienced either of them personally yet.

Anchor Worm Spread

From the Tropical Aquaculture Laboratory, I learned that different life stages of Lernea live on and off the fish. After anchor worms finish mating, the male dies, and the female bores into the male's tissue,

using a large anchor on her anterior "head" end to permanently secure itself into the skin and muscle of the fish. The female matures into an adult, and within 24 hours, she may begin to release eggs. Each egg hatches within 24 to 36 hours, and females are very prolific. They can produce batches of up to 250 juveniles every two weeks for up to 16 weeks at water temperatures warmer than 77°F.

Anchor worm contamination in a pond can be caused by birds eating infected fish and then infecting another pond with its feces, thus causing the cycle to begin again. It can also be introduced by an infected fish, so it is important to carefully examine any new fish before they are released into the pond. An anchor worm infection can spiral out of control in a pond at an alarming rate. If left unchecked, the worm itself can cause major damage to the fish and potentially spawn major infections.

While Lernea is extremely damaging if not caught in time, the parasite can be removed through the use of potassium permanganate. When used as a dip, anchor worms will release their hold from the side or back of the fish and can be gently swept away.

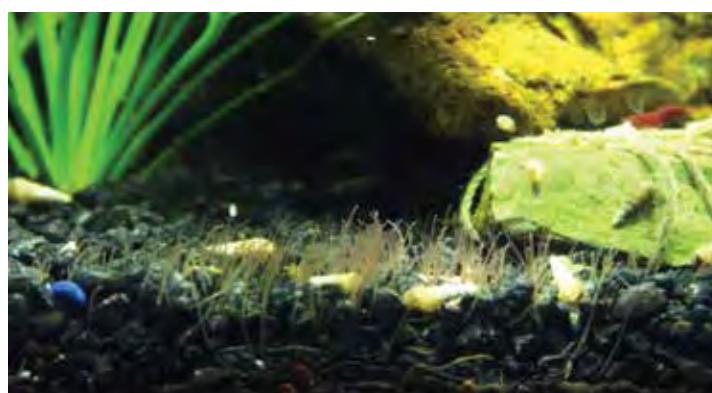
Fish Lice Outbreaks

The Argulus life cycle averages 30 to 60 days, depending on the species (yes, there are more than one) and water temperature. All life stages of both sexes are parasitic. Argulus japonicus eggs hatch in 10 days at 95°F but require 61 days at 59°F. Argulus foliaceus

hatches in 17 days at 73°F, but at 68°F, they hatch in 30 days. If laid in the fall, the eggs will survive over the winter until the following spring. In many species, the larvae must find a host within 2 to 3 days of hatching, or they will die.

Therefore, a crowded pond is a giveaway for the hatchlings. Once attached to the fish host, juveniles undergo a series of molts (11 molts, or 12 "stages" in *Argulus foliaceus*) until they reach sexual maturity approximately 30 to 40 days after hatching.

Fish without visible lice may show non-specific signs of infestation. These symptoms include spot or pinpoint hemorrhages, anemia, fin and scale loss, increased mucus production, lethargy, erratic swimming, reduced feeding, hanging at the surface (avoid-



A closer look at the bottom of a pond may reveal problems in progress.

ing swimming into the water column) and poor body condition.

Fish may flash, or rub against surfaces, in an attempt to relieve irritation or remove the parasites. In some cases, there may be no obvious drug choice, and the length of treatment for fish lice infections should take into consideration the life cycle of the parasite, which varies from 30 to 60 days, depending on tempera-

ture and species.

Koi fish lice is a crustacean, or "branchiuran" parasite most commonly found in koi ponds, but it is occasionally found in an aquarium. In an aquarium, the eggs are found in tubular structures on the glass and ornaments. In a pond, they are nearly impossible to find.

Dead Fish Tell the Tale

Treatment must target

all life stages, including eggs, juveniles and adults, both on the fish and in the environment. Adult parasites can be manually removed from the affected fish, but this is impractical in many situations. It's also an incomplete solution, because eggs, unattached juveniles and adults will still be present in the environment.

My actual introduction to fish lice came when a customer called for help. His fish were dying. After asking questions and ruling out the most likely causes of fish deaths in a mature pond, I learned that he had added several new fish about a year before. He did not quarantine them, as many hobbyists choose to do, due to space restrictions.

Naturally, he saved the dead fish to show me. I told

HANDS DOWN HEALTHIEST KOI



Our Koi Care Facility Works!

Here's The Proof:



- ZERO health issues in 2018 & 2019
- Year round availability of retail ready fish
- Beautiful fish that sell fast



Kloubec Koi Farm
North America's Premier Breeder of Champion Koi

319.846.2077
MONDAY - FRIDAY: 8AM - 5PM CST

Your best source for wholesale koi and goldfish!

www.kloubbeckoi.com



For more information & informative videos.



The gold standard in aquatic plant excellence. Plants grown in our new state of the art facility by growers with over 60 years of experience.

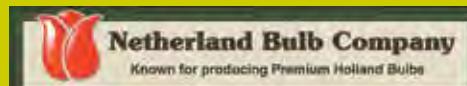
We have an extensive selection of plants ready to plant or market.

- Marginals
- Water Lilies
- Lotus
- Floater & Oxygenators
- Combination Planters



Whether you have a retail store or do installations exclusively, we have solutions for both. From pre-planned assortments to customizable solutions, we can help take the guess work out of assembling a healthy balanced mix. Contact us for a catalog or to schedule a salesman visit.

1.800.788.8547 • www.netherlandbulb.com • contactus@netherlandbulb.com



him, "Dead fish tell no tales." But, in this case, it told the whole story. He insisted on sending me the photos of his dead fish, as he could see nothing wrong with them. Reluctantly, I viewed the pictures.

In the first picture, I noticed nothing. But the second picture was a close-up, and it was a remarkable shot of what had happened to his fish. On one hand, I could understand how an uneducated eye did not recognize the problem. And yet, to me, it seemed so obvious. I could almost feel the pain and suffering the poor fish had undergone.

He had to treat his pond with Cyromazine, an insect growth regulator also used by veterinarians for fleas and ticks, which has proven quite successful in preventing the completion of molt, which these parasites have to go through continually throughout their life cycle. He also manually removed the adults from his fish for a better outcome.

This is an important lesson for pond builders and their customers when fish begin to die. Sometimes, we don't need a microscope to help them find the problem. ☺

About the Author

Carolyn Weise is the customer relations manager for Ecological Laboratories, Inc. She studied ornamental horticulture at the State University of New York at Farmingdale.

She moved to Florida in 2006 to work at the Cape Coral campus of Ecological Laboratories. Today, Carolyn serves as a liaison to koi clubs and recently joined the master gardener's program in Lee County. She has no plans to ever retire, because she loves her work. For additional information on pond management, nitrification and denitrification, contact her at Carolyn.weise@ecologicalabs.com



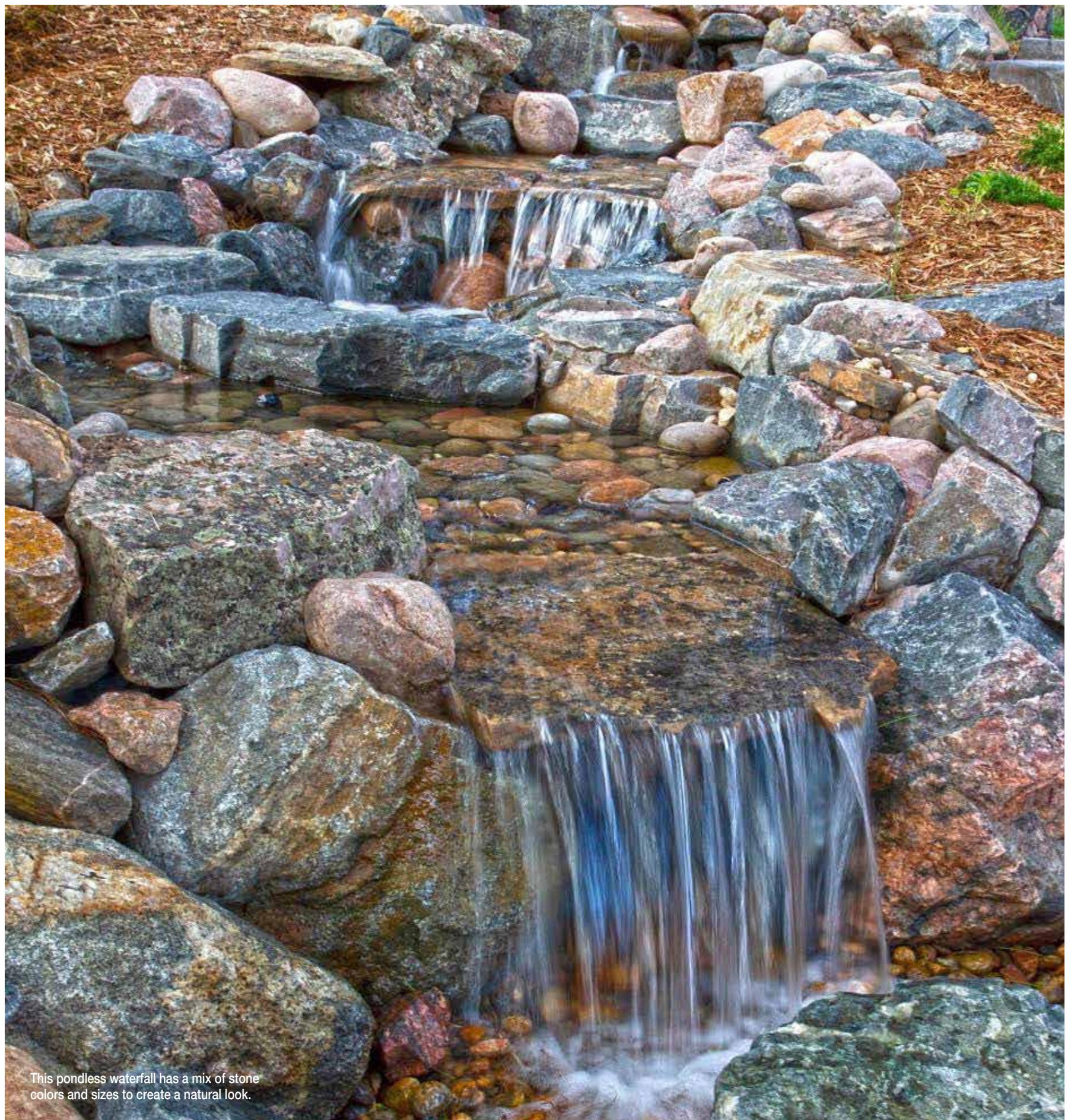
Leak-Proof Ponds with HERCO Fish Pond Coating

HERCO Coating is ideal for all types of ponds
Seals and leak-proofs block, brick and concrete
Safe for fish and for the environment
HERCO coating promotes healthy aquaculture
Easy to apply • Fast curing • Durable • Long-lasting

HERCO H-55 Rubber Coating (Black)	\$125.00 gal.
HERCO H-55 Rubber Coating (Grey)	\$140.00 gal.
HERCO H-55 Rubber Coating (White)	\$140.00 gal.
HERCO H-55 Rubber Coating (Clear)	\$140.00 gal.
HERCO CCFW Crack Filler (White)	\$24.00 ea.
HERCO CCFC Crack Filler (Clear)	\$26.00 ea.
HERCO TC-700 Cleaner	\$65.00 gal.
HERCO PSC Primer	\$69.00 gal.

HECHT RUBBER
CORPORATION
Since 1944

Phone Orders and Tech Advice: 1-800-872-3401 • www.hechtrubber.com • ponds@hechtrubber.com



This pondless waterfall has a mix of stone colors and sizes to create a natural look.

| Water Aesthetics |

Mastering the Craft

Pointers from a former Water Artisan winner

by **Shane Hemphill,**
Art of the Yard

We like to say that anybody can dig a hole and fill it with water. But to master the craft of building water features that function properly with simple maintenance and a proper biological balance, all while exuding a lasting aesthetic beauty — well, it can be a bit more complicated.

When I became a water-feature builder, I not only wanted to create beautiful water-scapes, but I also wanted to build systems that could support life, offer easy maintenance and give the customer exactly what they envisioned. I started out on the hobbyist side, falling in love with the beauty of koi at a young age. I wanted to create a koi pond I could enjoy and grow my love of the hobby.

Unfortunately, there was no such thing as a skimmer, up-flow filters or EPDM rubber liners back then. Ponds were built out of concrete with submerged filtration that, quite frankly, did not do much good. So, although my first pond was nothing short of a disaster, it inspired me to concentrate on mastering my skills as I continued along this wonderful adventure of building ponds.

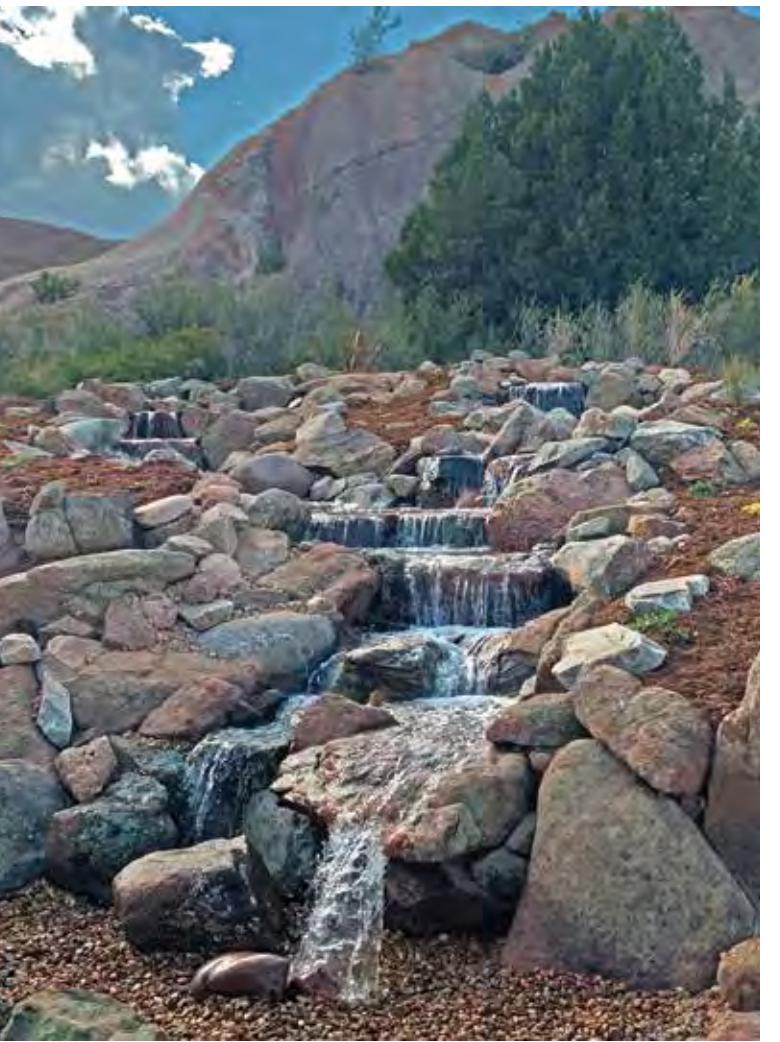
I started out focusing on the aesthetics of

the feature. Then I moved to filtration techniques, and then to koi. I ended with aquatic plants — something I now find as much joy in as I do koi!

Aesthetics

When working with the aesthetics of a water feature, we tend to use components that disappear into it. For example, we use multiple skimmers with smaller pumps so the skimmers can be tucked away and hidden. This can be achieved in a couple of different ways. First, you can pull the skimmer away from the edge of the feature so it doesn't break up your edge treatment. You can also cantilever stones to block the skimmer from areas where it can be seen, or simply use a good-quality fake-rock lid.

As far as manufacturers go, we have never locked in with a single one due to the simple fact that every feature is different, requiring different components to function properly. If you only use one manufacturer's products, you can master that system, but you have limited yourself to that system. At Art of the Yard, we live by the philosophy that we will always use the components that best suit the feature instead of creating water features around the components.



Aquatic plantings (top, left) are used to balance the look of an ecological pond. An OASE Screenmatic filter (above) is installed behind the waterfall for concealment. A pondless waterfall (middle) is built to blend in with the natural environment. A Sequence centrifugal pump (top, right) and filtration housing are built in a remote location to avoid clashing with the aesthetics of the koi pond. An Ultima 2 filter (bottom, right) is buried remotely with a backwash line installed to help water the garden.

Filtration

When considering filtration options, we like to work with systems that can blend in and not take away from the overall aesthetics. For ecosystem-style features, a good bog can be worked into the overall appearance of the feature. An undergravel grid can also work very well. For more advanced systems or dedicated koi ponds, we like to use pressurized systems that can be located away from the feature. They can be installed in the ground, around the corner of the house or behind some plantings to make sure they do not take away from the overall aesthetics of the final design.

Rock work is always an especially important aspect of any naturally designed water feature. When choosing stones for a feature, we like to use

stone that is hard enough so that it will not break down over time. At Art of the Yard, we use a variety of stone sizes to give our features a natural blend. Every water feature artist has their own style and techniques that set them apart from other builders. I would recommend studying others' styles to come up with a system that works best for you.

For us, filtering techniques are constantly evolving, as new and improved methods and products continue to advance. When choosing a filtration system, we like to gauge how much work the homeowner would like to put into maintenance (i.e., How serious a koi enthusiast are they?).

When creating a koi pond, we like to use filtration that forces water changes as part of regular maintenance. We believe

that water changes are the single most important tool to ensure good water quality. Filtration solutions that work well with this philosophy include pressurized filters and drum filtration, both of which can work well and coincide with skimmers, bottom drains, an up-flow filter, UVC, bog filters, intake bays and submersible or centrifugal pumps. We like to use a good mix of all these to create the proper system, depending on the desired final experience.

Koi

When getting into koi, it can be a bit daunting with all the Japanese names, the different varieties and the multiple styles of ponds that can support koi. If you go to a koi chat group and ask a question about a koi pond, you will get

100 different answers, each swearing to be the only way.

My advice is, keep an open mind! Start out with simple questions. Does the homeowner only want koi, or do they want to mix in plants? Do they want bottom drains, or do they want a rock bottom? Once you have all this information, you can start planning a feature to fit the needs of the pond.

Things that have helped me immensely through the years include joining a local koi club and asking its members what is most important to them in a successful koi pond. So, go on a tour with your local koi club or water garden society. Talk to people with

koi ponds. See what works for them and how much time they put into maintenance. Then, come up with a solution. I have gone to koi farms, talked with breeders and seized my own koi out of mud-bottom ponds, and through every experience, I have learned something new. I continue to learn to this day. If you can, travel to Japan and take in a koi show. You will be amazed at the different techniques that can produce a healthy koi pond.

Aquatic Plants

I think the final and sometimes most overlooked piece of the puzzle is the aquatic plants. Not only do the water plants add aesthetic beauty to

Double Deep 6 Pond Skimmer



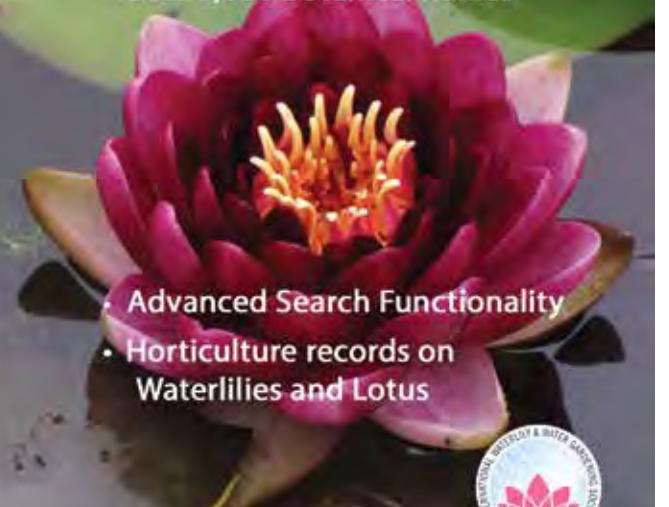
www.aqua-nicheusa.com
Info@aqua-nicheusa.com
Instagram/FB: @aquanicheusa

New!

IWGS Plant Database!

Visit PLANTS.IWGS.ORG

- Hybridizer information
- Over 3,000 botanical names



- Advanced Search Functionality
- Horticulture records on Waterlilies and Lotus



Not a Member? Become a member!
<https://iwgs.org/membership-types-3/>



YOU BUILD TRANQUILITY

WE PROVIDE YOU THE
SUPPLIES TO CREATE IT

Pondliner
WHOLESALE

WE SHIP EVERYTHING BUT THE WATER

WWW.PONDLINERWHOLESALE.COM
(866) 219-3561

WHOLESALE PRICING AND SERVICE

We support your business with very competitive pricing and a large variety of equipment from multiple brands. Most orders ship the same or next business day.

EDUCATION

Our customer service representatives are always happy to help with any technical assistance and are able to provide professional advice on products, design & construction. We also offer pond training & certification classes.

HUGE INVENTORY

We house over \$1,000,000 of inventory from over forty top manufacturers in our warehouse. We handle most warranty issues for you, no need to contact the manufacturer.



Waterlilies (above, left) installed in a dedicated koi pond to create a natural environment. It's good (above) to have friends in the industry. Building (bottom, left) outside the box. Enjoy what you do (left) and you will never have a day of work.

the pond, but they also bring wildlife and a healthy balance as well. Without proper plantings, an ecosystem pond is bound to fail. There are so many amazing varieties available to enhance your ponds, including oxygenators, floating plants, bog plants, waterlilies and water lotus — each of which have their own roles to play in a proper balance of your system. The easiest place to start when you notice a problem with water quality is to add more plants.

As I have progressed in the industry, I have learned that a single conversation with a wise man is better than years of study. Go to (or, as the case may be, Zoom to) all the conferences you can. Learn different techniques. Try different things. Do not be afraid to fail. I have learned more in good conversation industry conferences than I have in years in the field. Anytime an opportunity comes your way where you can learn and grow, take it! ☀

get your hands dirty! Learn how to differentiate between a day-blooming and night-blooming lily just by looking at the leaves. There are so many new hybrid waterlilies coming out, adding to the vast number of aquatic plants already out there that can breathe life into your water features.



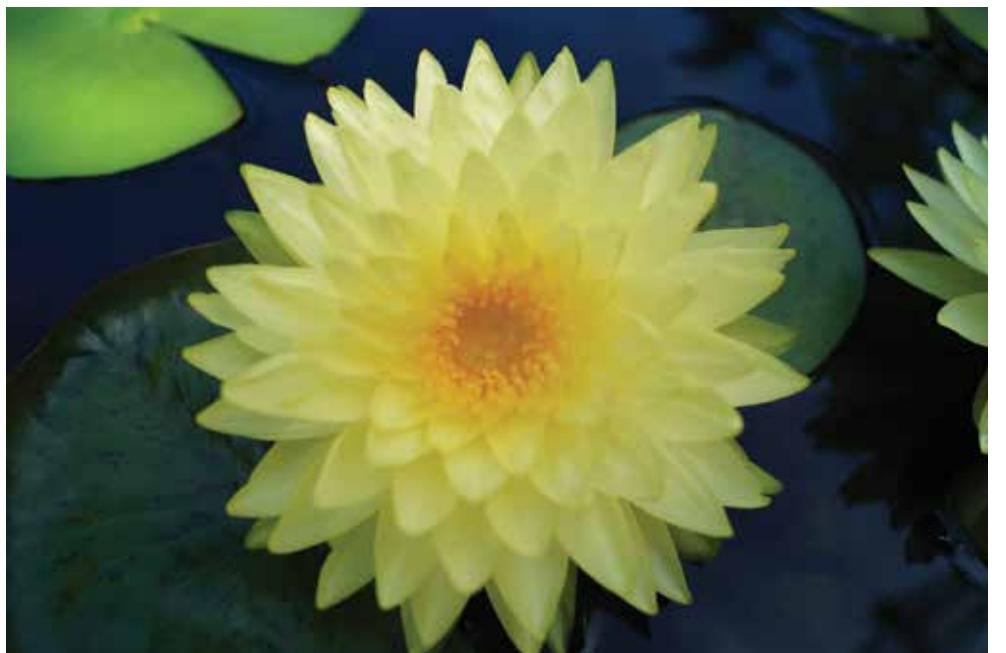
About the Author

Shane Hemphill and Heath Webb

have been building water features together for over 20 years. Nine

years ago, they started their own company, Art of the Yard.

By combining their friendship and experience, they have created a company that cares deeply about quality of work and customer service, while also creating one-of-a-kind works of art. Art of The Yard is an Atlantic Professional Contractor, a Helix Certified Contractor and the proud recipient of the 2018 Atlantic Professional Contractor of the year award. Check out Art of the Yard on Facebook and Instagram (@artoftheyard), on the web at www.artoftheyard.com.



2020 Best Overall New Waterlily *Nymphaea 'Puttaraksa'* by Pairote Thongnum

| New Waterlilies |

In Full Bloom

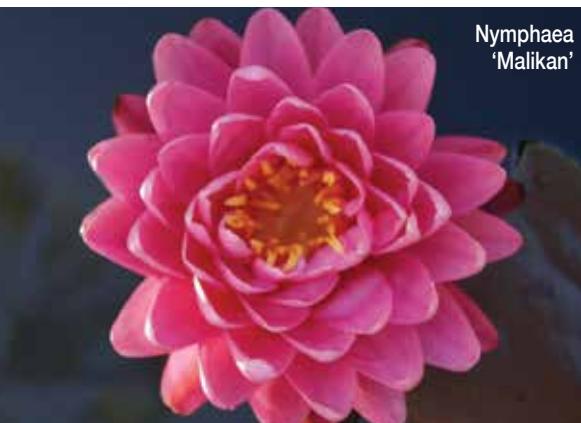
2020 IWGS New Waterlily Competition

by John Sou,
IWGS Board of Directors

The International Waterlily and Water Gardening Society (IWGS) has put on its New Waterlily Competition (NWC) for more than 20 years. The competition aims to showcase

and evaluate the latest interesting cultivars from around the world.

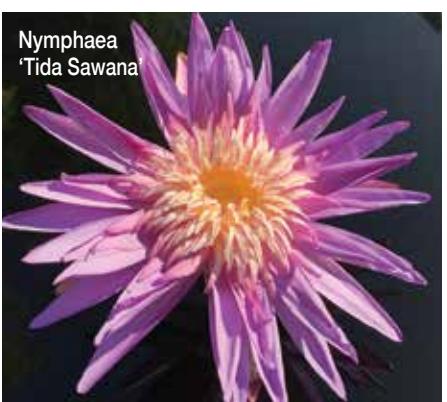
Over the years, the competition has debuted many successful plants that remain popular with home gardeners and commercial nurseries to this day. The competition has evolved over time to cater to the latest trends and developments in



the world of waterlilies.

It was no different for 2020, as we had a diverse group of entries for the competition. The categories were expanded to separate intersubgeneric (ISG) into both Hardy ISG and Tropical ISG.

The entries were judged by a diverse



group of professionals, ranging from beginners to experts and from waterlily enthusiasts to commercial growers.

The added challenge for NWC 2020 was the COVID-19 outbreak across the world, which caused some interruptions in the delivery of entries to the NWC host growing site, Naples

Botanical Gardens (Florida, USA). But overall, the competition was able to proceed successfully.

For the 2020 competition, a total of 21 entries from waterlily hybridizers around the world were grown successfully at Naples Botanical Gardens under the supervision of Aquatic Areas Manager Danny Cox.

The NWC 2020 judging panel consisted of the following 16 judges: CuiWei Yu (Zhejiang Humanities Landscape Co Ltd, China) Dave Brigante (Hughes Water Gardens, USA) Gianluca Bonomo (Piante d'Acqua, Italy) Iain MacGregor (Water Garden Life, Australia) James Allison (Aquapic, UK) James Knock (hybridiser, UK) Javier Tarillo Egner (Vivero Acuático Naturalia, Argentina) Joe Summers (Chalily, USA) John Loggins (Lone Star Aquatic Nursery, USA) Julien Baussay (Pepinieres de l'eau – Les filles du vent, France) Larry Nau (Bergen Water Gardens, USA) Richard Gallehawk (Dorset Water Lily Co, UK) Sander Dekker (The Netherlands) Séverine Lyssens-Danneboom (Aqua, Belgium) Tim Jennings (Longwood Gardens, USA) Tomas Escribano (Spain)

The winners for the IWGS 2020 New Waterlily Competition are:

2020 IWGS Best Overall New Waterlily

Nymphaea 'Puttaraksa' by Pairote Thongnum (Thailand)

2020 IWGS Best New Hardy Waterlily

1st Place
Nymphaea 'Puttaraksa' by Pairote Thongnum (Thailand)
2nd Place
Nymphaea 'Sriwipa' by Wipawan Sriaram (Thailand)

LOTUS

More than 400 varieties,
proudly grown, harvested,
and packed in the United States.



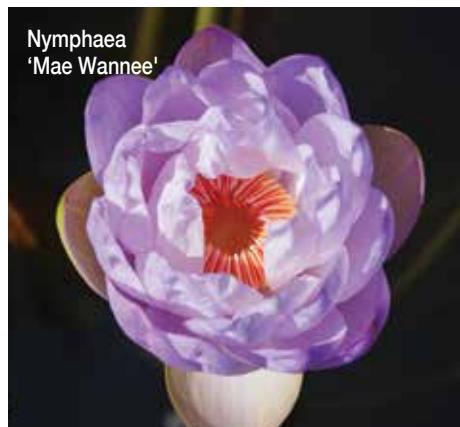
RETAIL

To The Public
www.tenmilecreeknursery.com

WHOLESALE

To Licensed Vendors
Contact Laura Bancroft
334-726-2492

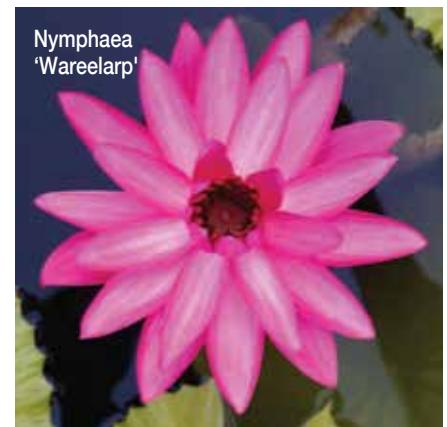




3rd Place
Nymphaea 'Malikan' by Potjanee Thongbai (Thailand)



3rd Place
Nymphaea 'Chompu Korakot' by Korakott Pumpetch (Thailand)



2020 IWGS Best New Hardy Intersubgeneric (ISG) Waterlily

1st Place
Nymphaea 'Siam Pride' by Pairat Songpanich, (Thailand)
2nd Place
Nymphaea 'Dark Valia' by Andreas Protopapas (Cyprus)
3rd Place
Nymphaea 'Tip Panitima' by Kanyaporn Inngam (Thailand)

2020 IWGS Best New Tropical Day Blooming Waterlily

1st Place
Nymphaea 'Pixie Dust' by Florida Aquatic Nurseries (USA)
2nd Place
Nymphaea 'Tida Sawana' by Dachrat Wannaponnpanich (Thailand)

SUBSURFACE AERATION

Full product line

flow ranges from 0.7-35 CFM or ponds 200 gallons to 2 acres

Quiet

average below 39dBA

Reliable

longest lasting linear air pump on the market



HIBLOW USA

Inventor and #1 selling linear air pump in the world
www.HIBLOW-USA.com • 734-944-5032



Repairable
can be rebuilt in 15 minutes with just a screwdriver

Full Warranty
1-year warranty on all parts



Check our page for monthly giveaways!

2020 Best New Tropical Intersubgeneric (ISG) Waterlily

1st Place
Nymphaea 'Mae Wanee' by Pornchai Sukkasemsamranjit (Thailand)

As with every competition, there was a lot of work and effort going on in the background to ensure that the event was completed successfully.

A big thank you goes out to Danny Cox, Matt Herrman and the volunteers at Naples Botanical Garden for their ongoing support in growing the competition waterlilies on-site and photography. Also, a huge thanks to all the judges for traveling to the host site and spending all their time and effort. Of course, this would not be possible without all the participants and hybridizers and everyone who donated to the IWGS for the competition. Finally, we send the utmost gratitude to the water gardening community at large for their ongoing interest and support.

Last, but not least, we would like to formally recognize the IWGS board members and NWC committee members for their support and contribution. With everyone's participation and cooperation, the NWC has continued to be very successful from year to year. Our committee members will now prepare for another year of exciting entries for the 2021 IWGS New Waterlily Competition.

Stay tuned for updates announced through the IWGS website (www.iwgs.org) and through the IWGS social media channels. ☀

www.iwgs.org

March/April 2021

1 Hp CasCascade 5000 \$869.95
Floating Pond Fountain Aerator
100 ft Power Cord • Light • Timer • EZ Installation!

UltraFalls 12,000
Super Efficiency Low-Head Centrifugal Water Pump
12,000 gallon/hour Max Flow – just 2.3 amps!
Perfect for Waterfalls




\$ave Thousands!
"Pump Performance Like No Other"
Long Life • Low Heat • 2 Year Warranty
Continuous Duty • Virtually Silent • Pays for Itself
\$1,194.95

www.fishpondaerator.com
Fish people since 1955
(608) 254-2735 • Call 7 days/week • Fast UPS Shipping!

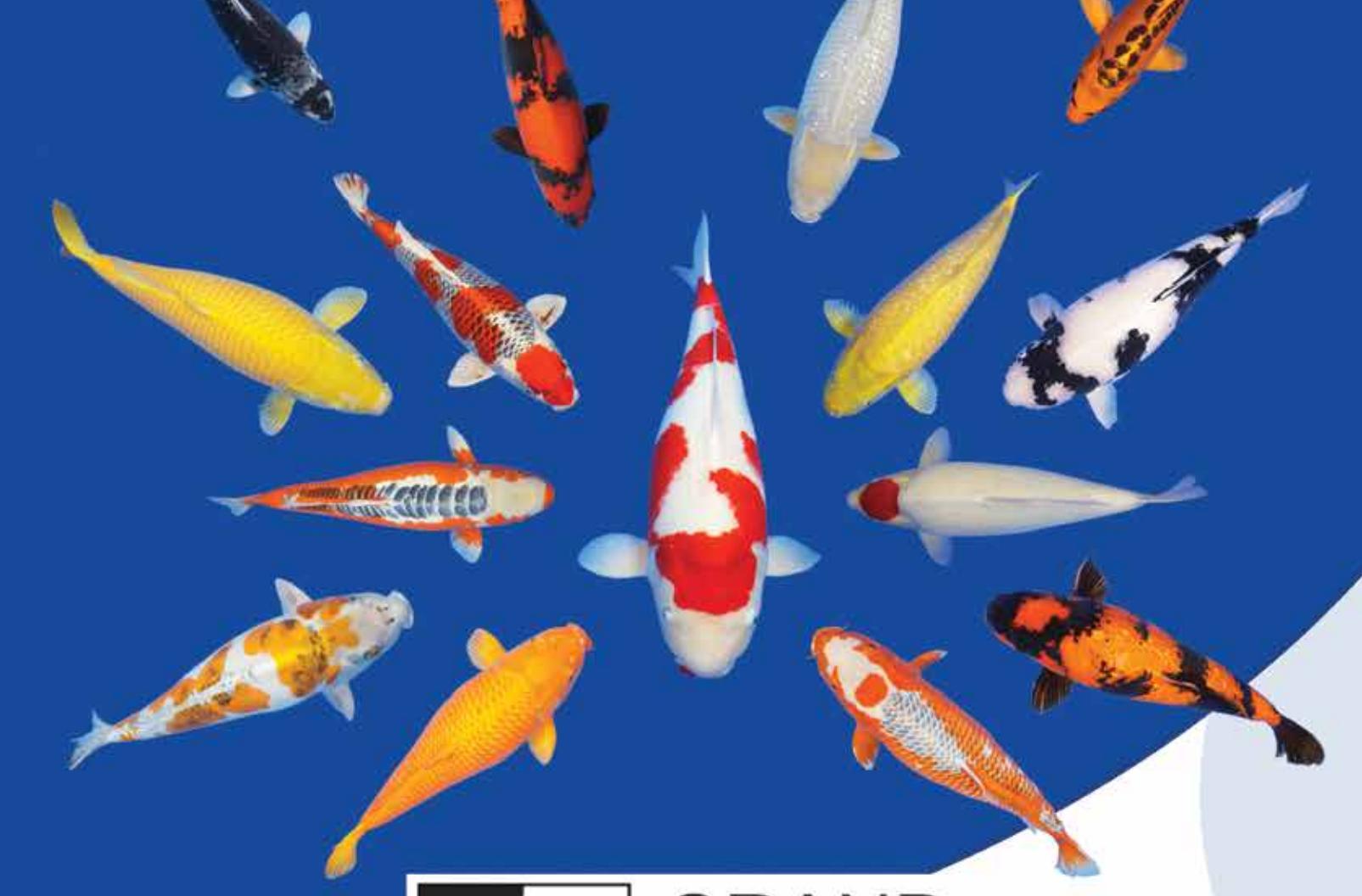
LIGHTSCAPES LLC
Innovative Solar Products

Built in the USA!

The Floating Illumination Station™

- ◊ Solar powered LED lights charge during the day and light up the flag at night!
- ◊ An anchor and tether line hold the Illumination Station in place.
- ◊ Flags for all US Military branches are available.
- ◊ Additional floating pond decorations available.

Dealers Wanted P: 260-701-0345 • www.lightscapesllc.com



**GRAND
KOI**

**THE FINEST IMPORTED JAPANESE KOI
FROM THE BEST BREEDERS IN THE WORLD**

CALL : 1-844-GRANDKOI (472-6356), 1-201-245-9352.

WE ARE ONE OF THE LARGEST JAPANESE KOI INVENTORY HOLDERS IN THE UNITED STATES. TO SUPPORT HOBBYISTS IN USA, WE HAVE COLLABORATED WITH LEADING MANUFACTURERS OF AUTOMATED FEEDERS, CERAMIC MEDIA, AND OTHER KOI ACCESSORIES "MADE IN JAPAN".

INFO@GRANDKOI.COM

USA | JAPAN

3751 GA-166, DOUGLASSVILLE, GA 30135, UNITED STATES

WWW.GRANDKOI.COM



Professional **Distancing**

Atlantic-OASE's virtual Professional Contractor Conference

by Demi Fortuna,
Atlantic-OASE

The first virtual Atlantic-OASE Professional Contractor Conference kicked off Wednesday, Dec. 2. Like most events these days, the two-day conference was held remotely. Using Zoom allowed the conference, which is usually held in person in Cleveland, Ohio, to expand from Europe to Australia, from Mexico to Canada and all over the United States.

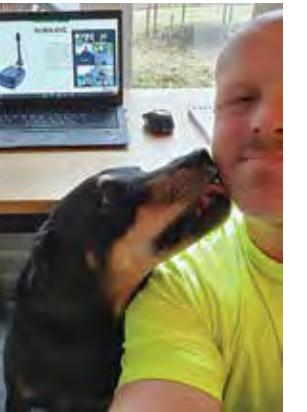
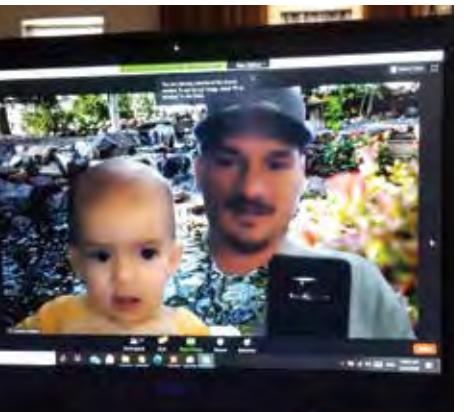
The decision to present the conference virtually was not an easy one. Attendees have always enjoyed the

opportunity to meet and network in person, but this year, safety took precedence.

"We just couldn't risk the health of our contractors, dealers, distributors and reps," said Kendahl Kreps, the event's organizer. "And the technology was up to the task!"

More than 200 conference attendees avoided the rigors of travel, masks and distancing (and perhaps even the need for pants!) while still interacting by voice and text with presenters, "meeting" other attendees in chat rooms, accessing on-demand videos and entering product giveaways following every presentation.





Key Presentations

Jeff Weemhoff, President of Atlantic-OASE, welcomed attendees from the company factory in Aurora, Ohio, with an introduction and a brief preview of the coming events. Thorsten Muck, CEO of OASE Living Water, introduced himself and the multinational company from world headquarters in Horstel, Germany. Thorsten presented the history of OASE from its roots, with an analysis of the current business challenges and a

prospective of future growth.

In the sessions that followed, Jim Chubb showcased the advanced filtration systems from his home in Michigan. From Denver, Colorado, Kyle Weemhoff hosted a session called "The Atlantic-OASE Water Feature," a detailed look at a build with a new, "top-down, bottom-up" fusion that combines the American skimmer-and-falls with the European pump-in-a-pond approach, claiming better results than either approach delivers alone.

After a short break, Leah LaFiciola, new multimedia specialist at Atlantic-OASE, flew attendees via camera drone through the 170,000-square-foot building, "stopping" at the many stations and areas that comprise the huge facility. Of special interest was the final reveal of the SandBox Training Center, with fully landscaped façade and "backyard," complete with sod lawns, plantings, walks and patios. The center was designed not only for hands-on training in landscape and hardscape water features, but also

2020 Atlantic-OASE Awards



APC of the Year
Jason and Tony Lenox



Atlantic-OASE President's Award
Mike Garcia



Atlantic-OASE Monster Award
Shane Hemphill & Heath Webb

as a year-round backdrop for photos, videos and online events.

Next, Frayne McAtee, presenting from the Pacific Northwest, went through the calculations for single and multi-nozzle fountain systems. After a spirited roundtable discussion, the first day of the conference ended with attendees splitting up into Zoom rooms for a virtual cocktail hour, where they

could chat up the day's events with Atlantic-OASE staff.

Day Two

McAtee and yours truly (Demi Fortuna) kicked off the next day by highlighting new products, including filters that guarantee clear water for smaller water gardens and hardscape features, hand-hammered brass bowls with a

deep patina and product bundles that add water and light to new and existing hardscapes. Category manager and internationally respected expert on "natural bathing," Maximilian Colditz joined us from Germany for an informative talk on the status of natural swimming pools, a hot topic around the world right now. Sean Bell unraveled the knots of estimating hardscape water features live

**High Quality Koi
@ Wholesale Prices**
Hand picked from Japanese Breeders

Aoki, Hiroi, Ikarashi, Jirosuke, Kase,
Marusada, Miyatora, Takano, Yamazaki

www.NijiYamaKoi.com

Thousands of baby koi!
Call for a price list
**949-415-4KOI
(4564)**
949-494-5107
1612 Orchard Dr.
Newport Beach, CA 92660

Wholesale only - Quarantined & KHV Free

Looking for Pond Solutions?

Outdoor water solutions

Contact Us to Become an Elite™ Dealer
1-866-471-1614

• Complete line of Solar Aerators
• Electric Aerators
• Windmill Aerators
• Fountains
• Microbes

High Quality Products with Great Customer Service!

www.OutdoorWaterSolutions.com

In the Clear



Eco-Clear Pond Filtration

WHY IT WORKS so well

The Eco-Clear Pump sends the dirty pond water to the Eco-Clear pressurized filter. The dirty water passes through multiple densities of foam filters and is cleaned of solid debris. Water then passes through bio-media for excellent biological filtration.

Filters have high-intensity UV lights that destroy algae cells, eliminating green water. Cleaned water is returned to your pond.



Eco-Clear Kits Include:

- Eco-Clear Submersible Pond Pump
- Eco-Clear Pressurized Pond Filter with built-in UV clarifier
- Kink free tubing and clamps



Call or visit easypro.com to request your catalogs today!

800-448-3873 EASYPROM.COM



kelly billing

design | supply | consulting

443.504.2345

nelumbo22@gmail.com

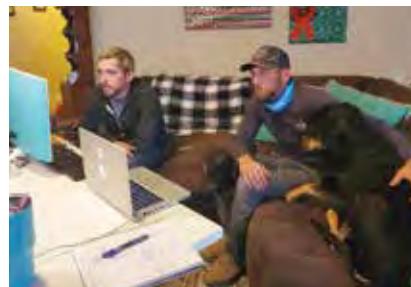
www.waterbecomesagarden.com

changing the way Water Becomes a Garden



from North Carolina, and lastly, Jim Chubb wrapped up the presentations with a close-up on the Easy Garden Control system, which offers wi-fi control and management of advanced filtration, pump and lighting systems.

In closing Thursday afternoon, Weemhoff presented the President's Award to renowned sustainability expert, fitness coach and award-winning designer and builder of water features, Mike Garcia of Enviroscapes LA for his years of teaching by example the responsible use of water in the landscape. The Pond Monster Lloyd Lightsey presented the Monster Award to Art of the Yard's Shane Hemphill and Heath Webb for their constant and continuing support of other contractors across the industry. Finally, Weemhoff concluded the conference with the presentation of the APC Contractor of the Year Award to Jason and Tony Lenox and their crew at Ponds Inc. of Illinois for their years of excellence in pond construction and their influential promotion of best practices. ☘



| Language of Koi |

Stressed Out

How to recognize koi stress & what to do about it

by Ellen Kloubec,
Kloubec Koi Farm

We all know that stress is a part of everyday life, and you probably have your own methods of coping with it.

Although you may not realize it, koi experience trauma related to stress as well. Because of their size, koi appear to be very hardy fish, and they are — as long as their environment is properly maintained. They can be quite sensitive to sudden changes in their environment, and this can cause undue stress.

In large part, keeping or retailing koi is all about managing the holding tank or pond ecosystem so that it remains as stable as possible. Koi are happiest in a consistent setting. Without intervention, fish may have difficulty overcoming serious tension and strain that can result from specific triggers. Changes in environment, water temperature, water quality or pond conditions can stress koi. Introducing new fish to a pond can also increase stress on the existing koi. Physical issues may arise due to the additional demands on water and filtration. Koi commonly exhibit signs of stress when dealing with illness and parasites, too.

Every fish is different, and some are better than others at dealing with changes within their tank or pond. If a problem goes untreated, eventually all the koi will show symptoms of stress and may even perish. It is important to identify the causes of stress and improve water quality conditions as soon as any symptoms appear in your koi.

Symptoms of Koi Stress

Be on the lookout for any change in koi activity that could represent the presence of a stressor. Watch for behavioral differences, such as swimming sluggishly, refusing food or self-isolating. Stressed fish often have a desire to break away from the group or hide. Missing or ignoring these sometimes-subtle signs could put your fish stock in great danger.

Koi may also exhibit physical changes when stressed, including rashes, which can manifest as a pinkish color all over the body, and especially on the fins,

sores or spots. These could be a sign of a bacterial or parasitic infection as well. Torn fins, damaged scales and even cuts and blood spots could also suggest

Be watchful for changes in the appearance and behavior of your fish stock in order to effectively detect stress. This means that you must know what

Common Signs of Stressed Fish

- Constantly swimming alone, separating from the group, isolating
- Reluctance to surface, even at feeding time
- Sluggish swimming and/or abnormal or convulsive motion
- Tilting on its side while swimming
- Floating or 'hanging' below the water surface
- Lying motionless on tank or pond bottom
- Jumping or breaking the surface of the water
- Pink coloration on skin and/or fins
- Dullness or reduced colors
- Hiding in plants, between rocks, under the waterfall, or in other crevices
- Brushing against rocks, pond edges and other items in the pond, as if scratching
- Holding pectoral fins tightly against body, clamping

problems with mishandling or a predator in a pond setting. On a stressed koi, the normally vivid colors will slowly fade and lighten, becoming dull and subdued.

"normal" looks like. Take a few minutes to visually examine your koi daily, paying close attention to the fins. Koi fins have a tendency to deteriorate when under stress. If you notice fins with tears,

ragged or uneven edges, splits, reddening or red streaks, your koi may be experiencing stress.

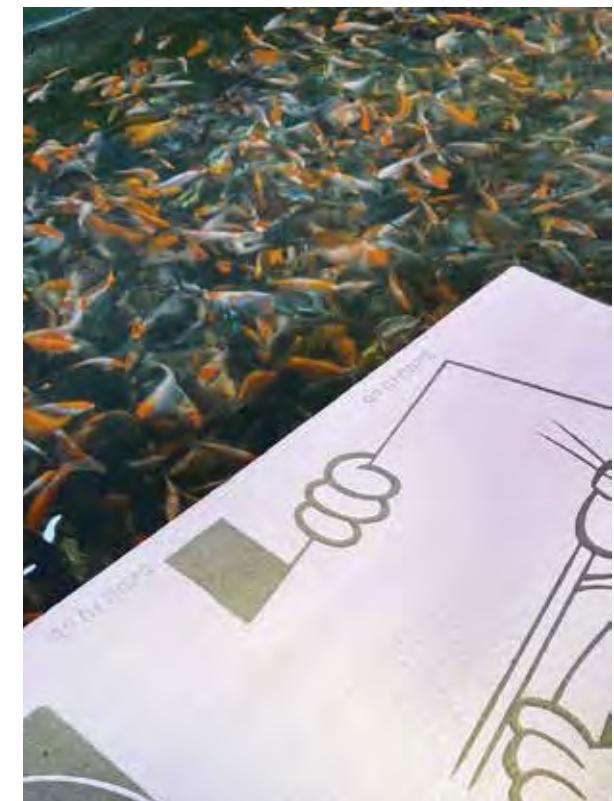
Causes of Koi Stress

Once you can identify the symptoms of koi stress, you need to understand the cause in order to fix it. Symptoms of stress may be identical for different stressors, so it's not always easy to pinpoint the underlying problem. Keep in mind that there may be multiple stressors affecting your fish simultaneously.

Water quality is a major cause of fish stress. The stability of your tank or pond water is essential to maintaining koi health. Even a gradual change in the water quality can cause fish to show signs of stress. Swings in water quality can occur from fluctuations in levels of ammonia, nitrites, nitrates, pH, KH and dissolved oxygen. Monitoring these parameters is very important

to avoid excessive fish stress. If you are moving koi, be sure that the water is cycled correctly prior to introducing fish to the pond or tank for a smooth transition.

Parasites are a fact of life in the koi world. Any body of water that contains fish also contains parasites. Healthy koi can and do host parasites in small quantities. When fish are weakened and stressed, the parasites are encouraged to breed excessively and flourish. Koi can host both internal and external parasites. Some parasites such as flukes, anchor worms and fish lice can cause changes in both the appearance and behavior of koi. Parasites may be difficult to identify because most are microscopic. A microscope is necessary for most koi parasite identification. Adult anchor worms and fish lice are visible to the unaided eye, but as they are quite small, they can be easily overlooked. The signs of



Floating Styrofoam can aid in reducing stress in a retail setting. It's a quick and inexpensive option for providing cover. Remove it slowly to avoid startling the koi.

Your one stop solution for clear, healthy water and Great Profits



Our line of upper end filtration products is designed to give your customers clear, healthy water while using a minimal amount of electricity. You'll love the profits that can be generated with our line of products.



Grand Champion Technologies
GC Tek
302 S. Sandy Lane
Chandler, Okla. 74834
866-712-7007 405-258-5551 Fax 866-728-0678
www.gctek.com info@gctek.com

When you need tanks call the experts at Polytank

- Numerous shapes and sizes
- In stock and custom molded
- Economical and self supporting

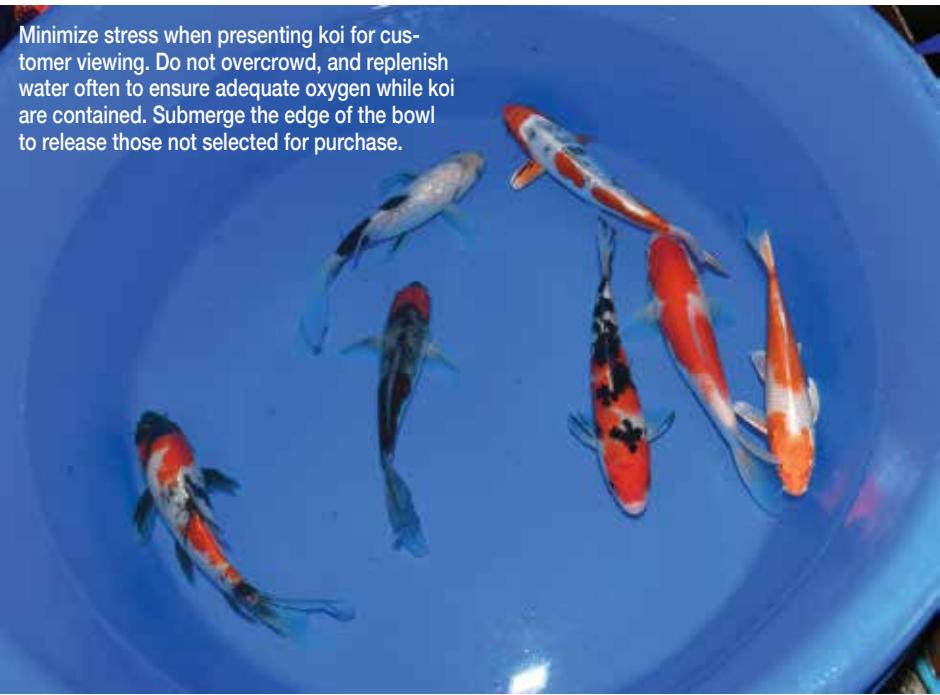


Polytank Inc.

62824 250th St, Litchfield, MN 55355
(320)693-8370 (800) 328-7659
www.polytankco.com

parasite infestations in koi are comparable to symptoms from other stressors. Koi may exhibit a number of behaviors, including rubbing on the pond edges, loss of appetite, lethargy, isolation, "panting" or bleeding gills, foggy eyes, physical changes to the skin, swelling, bumps and sores, reddening of skin

may be subject to attack from neighborhood cats, raccoons, mink and a variety of birds. If a pond is near a wooded area or stream, you may have a greater probability of natural predators visiting and causing chaos. When stalked by predators, koi fish may show typical signs of stress, such as darting, hiding or refusing



Minimize stress when presenting koi for customer viewing. Do not overcrowd, and replenish water often to ensure adequate oxygen while koi are contained. Submerge the edge of the bowl to release those not selected for purchase.

Ideal Water Parameters for Koi

Type	Optimum Range
Temperature	65 – 77° F
Oxygen Content	7 – 12 mg/L
pH	7.0 – 8.0 stable
Alkalinity	100 – 250 mg/L
Hardness	100 – 250 mg/L
Ammonia	0 – 0.01 mg/L un-ionized
Nitrite	0 – 0.01 mg/L
Nitrate	0 – 20 mg/L
Chlorine	0 mg/L

or fins, tilting to the side, lying on the bottom of the tank or pond, and staying near high-oxygen concentration areas, like air stones or a water inlet.

Predators are another common source of stress on koi. Most backyard koi ponds are safe from predators, although some

food. Signs of being attacked by a predator can include scratches, bodily injury, torn scales, damaged fins and reluctance to surface.

Handling can also be very stressful for fish. Whether you are moving fish for a pond cleanout or showing them to a

customer in your store, the fish will experience stress. Always maintain a highly oxygenated vessel for the koi, and don't forget to be extra careful not to damage the fins or slime coat.

Other potential stressors include pollution, which can result from incorrect water treatments or contaminants from insect or yard spray. A diet with an imbalance of proteins or amino acids can also cause problems. Overcrowding of fish can lead to aggression and the accumulation of nitrogenous wastes, including ammonia and nitrite. Microorganisms like bacteria, fungus and algae can also upset a pond's equilibrium and impact its inhabitants. Huge swings in temperature or periods of intense sunlight have their own adverse effects, as can loud and abrupt noises around the pond, which is amplified underwater.

As there are many potential stressors that could affect your koi, it is a good idea to maintain a journal for your retail tanks, pond and fish. Both positive and negative occurrences should be recorded. This journal will be an invaluable reference tool when you're trying to pinpoint a potential problem. When faced with a sick or stressed-out fish, you'll be glad that you took the time to make each entry.

Reducing Koi Stress

If you are unsure of the cause of stress in your koi, your first step should be to test the water. Sudden changes in pH, oxygen or ammonia could be causing the stress. Commercial water test kits can be used to test for imbalances in ammonia, pH, nitrites, nitrates and oxygen, as well as KH and GH. A rapid increase or decrease in pH can kill koi. Ammonia tends to gradually build up over time, wreaking havoc. Be aware that ammonia's toxicity is dependent on the pH levels and water temperatures, so as these levels rise, any lingering ammonia can have a deadlier effect. Monitoring water quality should become part of your maintenance routine.

In addition to testing the water, you should also test and record the parameters of your source water. Many municipal water supplies contain high levels of

ammonia, as well as toxic chlorine and chloramines. Well water can also contain high levels of ammonia. Performing water changes in an attempt to reduce ammonia is futile if the source water contains high ammonia levels, too! Stability is important for koi, so do not create drastic fluctuations when fixing water-quality issues. Make gradual adjustments to return the water parameters to the desired levels.

Koi that reside in clean and highly oxygenated water are less likely to be stressed. Be sure to periodically check your aeration equipment to ensure adequate oxygen is provided. Replacing air stones is an inexpensive way to reduce the threat of low dissolved oxygen conditions. The use of high-quality beneficial bacteria is vital for maintaining ideal water quality, which works along with mechanical filtration to remove solids.

Protecting Your Koi

Predators create an enormous amount of stress in the koi pond by stalking and

chasing fish. Depending on your location, you may have a variety of predators seeking an easy snack from your pond. Various signs of an outside visitor include tracks, droppings, trampled plants, missing fish and stressed or injured fish. Also, koi may refuse to feed. Removing or deterring predators depends on the type of animal that is interfering with the pond. Chasing and catching koi in a retail setting can simulate predatory behavior. Always move nets slowly and carefully so as not to injure the koi's slime coat when bowing koi for customer viewing.

Like humans, when koi can relax and feel safe, they will stress less often. Shelter can be made with rocks that are stacked to create crevices and caves, though be sure that they will not tip, possibly crushing or injuring fish. Waterlilies or floating plants that cover a large surface area may prove places for fish to seek shelter, too.

Bottom line, preventing the causes of

stress is much easier than dealing with the results of it. Regularly clean your retail systems and your pond. Monitor water quality, treat for parasites if necessary, handle koi gently and protect your pond from predators to ensure that you maintain a healthy and stress-free environment for your happy koi. **cs**

About the Author

Ellen Kloubec and her husband



Myron began their aquaculture business in 1981, and their farm consists of 80 acres of mud ponds. Together with their son Nick, they raise and supply healthy and hardy koi to wholesale customers throughout the USA and Canada. Ellen loves all things koi.

www.kloubeckoi.com

AQUA
ULTRAVIOLET

**Koi & Pond Hobbyist
Deserve the Best!**

For four decades, Aqua Ultraviolet has been the premier manufacturer of ultraviolet sterilizers and bio-mechanical filtration.

CLASSIC UV STERILIZERS

SL STAINLESS STEEL STERILIZERS

VIPER SL STERILIZERS

ULTIMA II FILTERS

(800) 454-2725 | info@aquauv.com | AquaUV.com

MADE IN THE USA

EPA Est 68177-CA-001

@AquaUV @aquauv AquaUltraviolet



New Method to Build Backyard Beach Ponds with Sand, Koi & Crystal Clear Water

Stonewall Creek, a pond-building company in Las Vegas, Nevada, has announced the launch of a new method to build koi ponds with sand and crystal clear. This method has been changing the way backyards are being made in the Las Vegas Valley, and is rapidly catching on as a trend throughout the United States.

This newly launched building method for natural swim ponds aims to help homeowners enjoy a sandy beach-style paradise in their own backyards where they can swim in ultra-clear water that can handle large fish loads with sand across the bottom, without all the maintenance issues that usually come with koi ponds of this type.

Hector Mardueño, the owner of Stonewall Creek, discovered the process that allows ponds to sustain crystal clear, clean and swimmable water year-round with beach sand throughout the bottom, without the use of chlorine.

The proprietary sand pond filtration system "S.A.N.D." has been perfected three years in the making after many modifications and rigorous testing. This method allows ponds to sustain high-quality water with levels of clarity that is otherwise impossible to achieve without the use of chlorine.

These natural sand pond beaches are also able to take on large fish loads, as well as people bathing in them. This makes a much more desirable natural swimming pool for homeowners. People can swim regularly with koi fish, since the water doesn't have toxic chemicals and also stays entirely clean simultaneously. Swimming with koi is desirable by many, and the koi can become very social with their keepers to the point where one can hold and feed them.

A benefit to having a natural swimming pool is that it is a usable water feature in the winter in areas where water does not freeze. This means that one can add aquatic plants, edible water plants such as watercress, taro plants, mint, ginger, tomatoes, peppers, bacopa, water celery, pennywort, and more to their pond. Interestingly enough, plants an integral part of a new beach pond filtration system.

Due to the way the Stonewall Creek filtration system works with sandy freshwater ponds, one can plumb it and use the filtration system for hydroponics.

To learn more about Stonewall Creek pond builders and natural swimming pools, visit www.stonewallcreeknv.com.

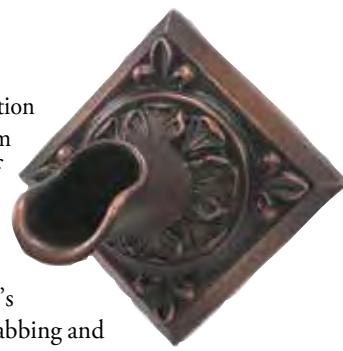
Oak Leaf Diamond Scupper

Black Oak Foundry's newest addition to our line of top quality medium bronze scuppers is the Oak Leaf Scupper with the diamond back plate in distressed copper finish.

The Oak Leaf Diamond Scupper blends the Roman Scupper's simplicity with a more attention-grabbing and prominent oak leaf emitter. This Oak Leaf water feature is vital in sufficient intricate detail, making it a perfect complement for a range of architectural, outdoor living, pool, spa and fountain designs.

The Oak Leaf Scupper Diamond is available in several finishes and is remarkable in distressed copper and oil-rubbed bronze with highlights.

Black Oak Foundry
www.BlackOakFoundry.com
949/305-7372



IWGS Launches New Plant Database

We are pleased to announce the launch of the new International Waterlily and Water Gardening Society (IWGS) plant database! This is fully searchable, by plant or hybridizer, with advanced filters to help you find that next plant for your pond - or help identify a plant you may already have.

We have 3,000 plant names and more than 1,000 photos of waterlily and lotus varieties already, but we would love for you to help us make it even better. Please share your plant photos with us, so we can share them to the world! You need to register first, but it is simple and can also be completed through a Facebook login link.

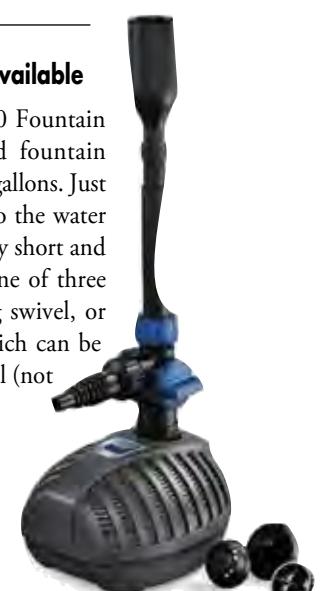
Our next update is due this spring and will feature shallow water, submerged and floating plants, so we can be your No. 1 source for all aquatic plants.

We are looking for missing cultivar photos and additional photos to add to each photo gallery. Any photos submitted will be reviewed by qualified people to ensure accuracy before the photos will be added to the database with your photo credit. www.iwgs.org/database

OASE Aquarius Fountain Sets Now Available

OASE Aquarius 250, 550, 825 & 1100 Fountain Sets are compact, all-in-one pump and fountain combinations for small ponds up to 1,100 gallons. Just drop the compact, self-contained case into the water feature to clean water fast. A high-efficiency short and frost-protected pump returns water via one of three included fountain heads on a telescoping swivel, or through a valved diverter and fitting, which can be connected to an optional spitter or waterfall (not included).

Atlantic-OASE
330/274-8317
www.ATLANTIC-OASE.com



To see full press releases and additional news items, visit www.pondtrademag.com/category/trade-news



New United Aquatics Long Arm Pond Gloves

United Aquatics is pleased to present our Long Arm Pond Gloves. These heavy duty, full arm length, reusable gloves with elastic cuff are suitable for any dirty aquatic job, like cleaning pond filters, gathering wet leaves, pulling string algae or blanket weed, moving plants and rocks, or transplanting ornaments in an aquarium.

United Aquatics Long Arm Pond Gloves are made from durable latex-free PVC nitrile. At 28 inches long, they are lightweight and keep the full arm dry, as they are watertight, sealed and protected from the elements. An extended gauntlet cuff will protect almost up to the shoulder, while a strong elastic top remains in place, preventing the glove from slipping down arm.

They retain dexterity and pliability in low temperatures to ensure a firm gripping area in slippery or icy conditions. These gloves work great in the snow! One size fits most hands and arms.

United Aquatics Long Arm Pond Gloves are easy to clean for repeated use by simply rinsing with water and hanging them to dry. Check out this top-quality United Aquatics product!

United Aquatics LLC
www.unitedaquatics.com
sales@unitedaquatics.com
856/985-9339



New Tranquil Décor Designer Series Fountains

EasyPro's Tranquil Décor line gets an infusion of color and texture! The Tranquil Décor Designer Series features six new three-stone fountain sets. Each set contains three real stone columns that are core drilled for plumbing and lighting.

Complete fountain sets include basin with support block, water pump, plumbing kit and light kit. To request your full-color catalog or for more information on EasyPro products, call 800-448-3873 or visit www.easypopro.com.



Aquascape Doubles Down on Digital Marketing in Pandemic Era

Aquascape, Inc. founder and owner, Greg Wittstock, wondered how his business could overcome the obstacles created by the Coronavirus pandemic. To continue training and inspiring his network of pond and water feature contractors and their employees, Wittstock decided to have a faux backyard space built in his company's warehouse.

Wittstock knew he had to pivot quickly to keep the momentum going after the pandemic forced Aquascape to cancel in-person events. Online training tools, like the newly created Aquascape University, continued the classroom-style education offered in past events but lacked the hands-on build segments that made them a success. His new space in the warehouse, "The Sandbox Studio," fills that void with his local construction crew and the industry's best Certified Aquascape Contractors collaborating to build over-the-top water feature displays in a truck bay filled with more than seven semi-truck loads of soil and sand.

"I wanted to create a collaboration opportunity for Aquascape Construction and the best pond artists in the world while documenting all of it on YouTube, Instagram, and Facebook so others can learn design and installation techniques and get inspired to begin Living the Aquascape Lifestyle," says Wittstock. "With the help of both Leader Builders and Shedsters, we constructed a house façade and a versatile shed around a sand pit and crafted our own canvas for extreme pond building."

During the offseason, Wittstock's top contractors, each an Aquascape Artist of The Year, build a water feature display in one week to showcase advanced artistry. At the end of each week, his crew demolishes the display to prepare for the next incoming artist. Video content is then uploaded to the TEAM Aquascape and Greg Wittstock, The Pond Guy YouTube channels to educate and inspire a global audience.

Wittstock and his company are working through the adversities of the pandemic by doubling down on digital marketing initiatives while investing in online contractor training and consumer inspiration. So far, the outcomes are creating new opportunities to expand their global reach while serving their existing contractor base under challenging circumstances.

For more information about Aquascape and our full line of water feature products, visit aq-uscapeinc.com or call 866/877-6637 (US) or 866/766-3426 (CAN).



POND-O-RAMA

2021 Pond-O-Rama Tour

The St. Louis Water Garden Society (SLWGS) is celebrating 31 years as a society sharing information about fish, ponds and gardens. This year is our 21st annual water garden and pond tour.

2021 Pond-O-Rama will take place Saturday, June 26 and Sunday, June 27 from 9 a.m. to 5 p.m. each day. This year's tour will feature private gardens owned and maintained by Society members. Tickets covering both days of the tour are \$15 each (18 years of age and older) and will be available at local retail shops and garden centers throughout the metropolitan area or on our website.

The gardens are located throughout the St. Louis metropolitan area, including in Illinois. This self-guided tour is arranged each day by geographic location. Even during this pandemic, our members have been outside gardening and making their spaces quite spectacular. Last year, the water features were over the top, and many of our members were new and excited to share their new ponds and waterfalls.

Because so many people in 2020 were at home, our creative contractors were working more than ever enhancing the spaces of so many new clients. This year, those beautiful ponds and streams will be on tour.

There are always so many varieties of water gardens, bubbling rocks and ponds, from small to massive. Regardless of size, all our members love to share their ideas and projects with the visitors who come to their gardens each year. There is so much to learn from each of our hosts about their gardens, water plants, koi fish, goldfish, design, water features and landscaping. There is something for everyone to enjoy safely outside while social distancing. Many members are master gardeners, and many water gardens have been featured in St. Louis Home and Lifestyle Magazine and local newspapers and magazines.

This event provides funds for the St. Louis Water Garden Society to continue their civic project to plant and maintain the reflecting pools at the Jewel Box in Forest Park.

The tour ticket booklet provides location addresses, descriptions and driving directions. For more information on where to purchase tickets, call 314/995-2988. Tickets will be available in May 2021 by mail order from the Society's website, www.slwgs.org, and at many of our retailers and garden centers.



MARKETPLACE



Pond Aeration
Mescan Windmills
 Farm & Koi
 Pond Aeration
PondAeration.com
 440 236-3278



Koi-Kit
 For sparkling clear Koi pond water.
 treats 100,000 gallons
Aquacide.com/kit
800-328-9350



K L O U B E C
K O I F A R M
 WE DELIVER MORE...
 Family owned & operated,
 3 generations of award winning
 excellence in aquaculture
(319) 846.2077
www.kloubekoi.com



Mt. Parnell
Fisheries Inc.
Born & Raised
in the USA
 Goldfish & Koi since 1923
 When Quality Matters
 1574 Fort Loudon Road ~ Mercersburg, PA 17236
 800-438-4652 ~ info@mtparnell.com



HARDSCAPE
 North America
 OCTOBER 20-22, 2021
HardscapeNA.com



NEED MARKETING HELP?
pondtent
215.805.8257
 WE TURN YOUR DATABASE INTO DOLLARS

Don't miss out on this
 Market Place advertising opportunity.
 See our website:
<http://www.pondtrademag.com/advertise-with-us/>

Advertisers' Index

AMP / Volt Lighting	33
Anjon Water Garden Products	2
Aqua Ultraviolet	65
Aquacide	71
Aqua Niche	49
Atlantic / OASE	72
Bassinger Fisheries	23
Biosafe	3
Bioverse, Inc.	22
Discount Ponds	32
EasyPro Pond Products	34, 35
EasyPro Pond Products	60
Evolution Aqua	73
Featherock, Inc.	22
Fishpondaerator	55
GC Tek	62
Grand Koi	56
Hecht Rubber	45
Hiblow USA, Inc.	54
IWGS	49
Joe Mescan Windmill	70
Kloubec Koi Farm	43, 70
Koi Smart Pond Supply	39
Laguna Water Gardening	27
Lightscapes LLC	55
Microbe-Lift	8
Mt. Parnell Fisheries, Inc.	71
Netherland Bulb	44
Niji-Yama Koi	58
Nitto Kohki	20
Outdoor Water Solutions	59
Patio Ponds	7
Polytank	63
Pondliner.com	50
Pondtent	69
Pond Pro 2000	39
ShinMaywa	26
Ten Mile Creek Nursery	53
United Aquatics	7
Water Becomes a Garden	60

Extend your national visibility -
 advertise in

PONDTRADE™

Call Lora Lee Gelles 708/873-1921
 or llgelles@pondtrademag.com

FINAL THOUGHT...



Contact us today:
sales@fitzfishponds.com
908-420-9908
fitzfishponds.com

Wholesale Pond Supplies



FITZ'S FISH PONDS

Wholesale Japanese Koi

Hand pick from tens of thousands of Imported Koi from the finest breeders in Japan. All sizes and varieties available



Wholesale Pond Plants

- Water Lily
- Hyacinths
- Water Lettuce
- Marginals



BERMUDA



- Pressure Filters
- Filter Kits
- Pumps
- Aerators
- Pond Lights
- Spitters

Atlantic Oase



- Pumps
- Filterfalls
- Skimmers
- Pressure Filter
- Filter Boxes
- Pond Vacuums
- Water Treatments
- Aerators
- Pond Lights
- Maintenance accessories
- & Much more

erdbau NETS

Carbon Fiber Nets and Koi Socks

20", 28", 32", & 36" Diameter
Adjustable Shafts up to 136"
Koi Socks 10" & 18" Shafts



info@evolutionaquausa.com evolutionaquausa.com 888-417-5837

EVOLUTION AQUA

INNOVATION IN WATER

NEW

K+ Media

Available in Floating or Sinking

New and Improved K+ media with overall surface area of 14,530 ft² per ft³

- + Minerals added to media
- + Faster filter maturation
- + Stable bio-film production
- + Easy auto cleaning kit upgrade

nexus+

- + Class leading surface area
- + K+Media for biological filtration
- Nexus 220+ (4,800 Gal)
Nexus 320+ (9,000 Gal)

Award-winning, efficient biological and mechanical koi pond filtration system

evofeed AUTOMATIC

Feeder's range is 3-10 ft at 120° angle with over 1.5 Gallon capacity

- Recharging battery lasts 3 months
- Pellet Size: 3-10 mm
- Dispenses up to 6 times per day



Filter Start Gel helps jump start cycling a new pond



Fast acting, concentrated version of Pure Pond used to achieve crystal clear water



Biodegradable balls full of live bacteria that are released when needed



Water has never looked
so good.



 **Atlantic** | *Oase*

Visit us online to explore our premier water feature products

www.ATLANTIC-OASE.com