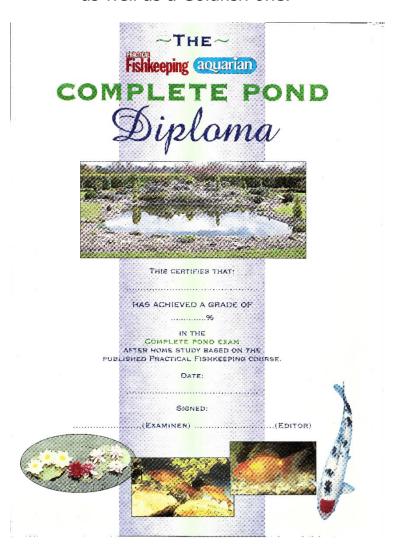


July 2017 – A Pond Issue

This newsletter reminds members that we are a pond society as well as a Goldfish one.

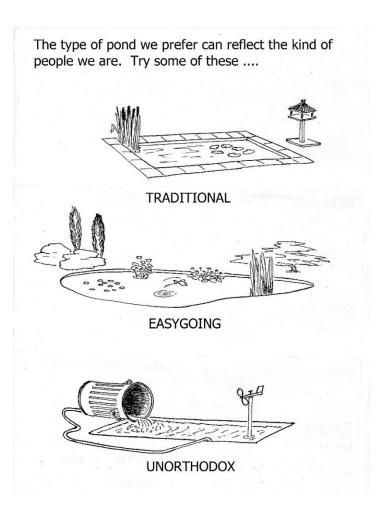


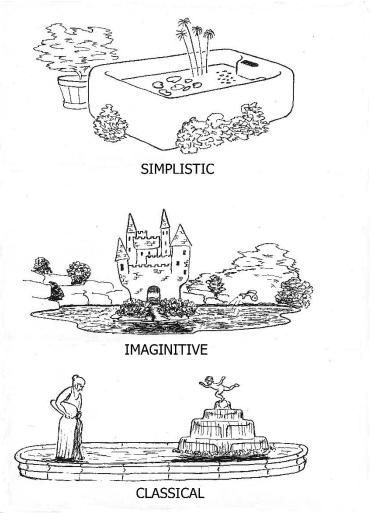
Many years ago, when working for Mars Fishcare, I ran this course on Ponds via Practical Fishkeeping magazine. Hundreds took the course, earning this diploma after taking an exam and then, hopefully, building their pond.

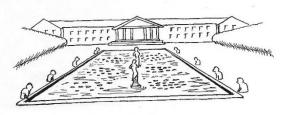
But what type of pond?

Alex Stephenson (our member in Norfolk) drew these cartoons for the Newsletter.

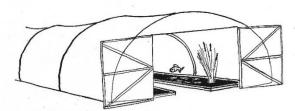
Here is the dozen he chose and his comments.



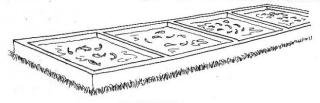




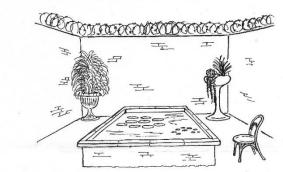
RICH



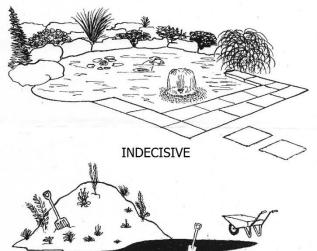
PROTECTIVE



PRACTICAL



RECLUSIVE



DEFEATIST!

Whatever type of pond you chose – always remember that an average of over 300 people die by drowning each year in the UK, of these, five children (under 5) drown in garden ponds.



Forbid your kids to even go near your pond.

#### **A Pond Diploma**

If you are interested – below (p4) are the questions that were asked in the PFK Pond Diploma Course. 75% needed to get a diploma. Do you really want the answers?

Several hundred PFK readers sent in their answers and at 75% most passed and received their diploma by post. Only a few got 100% though and a few decided any answer would do and just ticked all the boxes. Told to try again rather than the just a 'fail'! A similar Diploma course was run for Tropicals, Coldwater and Marine fishkeeping.

I heard from a few aquatic shops that they received the diplomas as a CV when applying for a job. That was pleasing.

4 Here is the PFK page from 1997 ....

# Here are your Pond Diploma questions - take your time

. The rate at which a pond heats up or ools down is related to:	8. Which of the following materials causes the most problem with high pH	16. The best soil to grow pond plants in is:	23. For filter organisms to grow well in a filter they must have:
. The surface area	values in pond water?	a. Enriched with peat and soluble	a. A high surface area to which to attach
. The volume	a. Decorative limestone edging	nutrients $\square$	and a supply of oxygenated water
. Both the surface area and the volume	b. Fresh cement mortar	b. A heavy loam containing some clay	b. A lightweight medium, preferably
of the pond 🗌	c. Peat in planting soil	c. A sandy soil enriched with chalk and	green in colour
		slow-release fertiliser	c. The fastest possible flow of water
. It is a good idea to carry out	9. Which of the following provides the		past them
ccasional partial water changes on a	greatest level of safety in pond electrical	17. The important 'planting depth' for	
arden pond because;	installations?	marginals refers to:	24. Kei generally need ponds with bigger
. The chlorine in the tapwater used to	a. A miniature circuit-breaking fuse in	a. The distance between the water level	filters than similarly-sized goldfish
op up the pond helps to kill unwanted	the house fuseboard	and the shelf the planting basket is	ponds because:
sh parasites $\square$	b. A Residual Current Device	placed on	a. Koi are more messy and create more
		b. The measurement between the soil	waste than most other pondfish
. Unlike natural ponds, garden ponds	c. A three-core (rather than two-core)		
re virtually watertight, and a water	cable	surface in the planting basket and the	b. Koi are more expensive, so a more
hange will help reduce waste levels in		water surface $\square$	expensive filter is needed for them than
he water 🗌	10. One of the main advantages of an	c. The depth the plant should be placed	for ordinary goldfish
. Water changes help to prevent	open impeller pump is:	in the soil in the planting basket 🗌	c. Koi are not as hardy as other fish
uckweed and blanketweed growth	a. It is less likely to clog with solids		
	b. It uses power more efficiently	18. The main advantage of biological	25. Probably the best way to keep fish
. A 'thermocline' is not found in	c. It can run faster	filtration to fish is that:	healthy in a pond is:
rdinary garden pends because:	v. it van ran rastor L.J	a. The filter breaks down fish wastes	a. To treat on a regular basis with
	11. The most accurate definition of a	b. The water becomes supersaturated	medications
In Britain we never get real extremes			
f temperature	water pump's 'head' is:	with oxygen	b. To keep the water as clear as
. Only the medical profession uses	a. Difference in height between the	c. The water becomes clear and free of	possible with a UV unit
hermoclines	pump and the hose outlet	green-water algae	c. To maintain stable water conditions
. Ordinary garden ponds are too	b. Length of the hose from the pump		which result in the minimum of stress to
hallow for them to exist	outlet to the hose outlet	19. There is a misprint in the	the fish
	c. The difference in height between the	'Fish Factors' section. Which of	
. Very shallow ponds with gently	pond water level and the hose outlet	the following is NOT a factor in	When you have completed your
sloping sides are not recommended.		the amount of oxygen entering the	exam paper, fill in the details
Which of the following reasons is	12. Most UV units use a protective	pond?	balance and them to uctain
ALSE?:		a. Photosynthesis	below or add them to your hand-
	sleeve of quartz glass or 'Teflon'		written entry.
. These ponds have a poor surface area	because:	b. Fountains and waterfalls	Please use the name you expect
o volume ratio 🗆	a. Algae and dirt are less likely to build	c. The amount of fish waste	to see on your certificate if you
p. These ponds have a lower oxygen	up on these materials	d. The pool surface area	
content in the water 🗌	b. These materials prevent electricity		pass the exam.
. Invasive marginal plants can grow	entering the water	20. In aquaculture, the fish load that a	Send it all to: Pond Diploma
nto the pond quicker 🗆	c. These materials are transparent	pond can safely hold is related to:	Exam, Practical Fishkeeping,
	to UV light	a. The number of inches of fish for each	Apex House, Oundle Road,
5. At 100% saturation with oxygen,	to or right.	square foot of surface area	Peterborough PE2 9NP.
condwater at 25° Centigrade holds:	13. A 60-watt fountain pump runs 12	b. The weight of fish per gallon of water	i etorborough i LZ oni .
a. About a third less oxygen than	hours a day, seven days a week. If the	and the average length of the fish	
ondwater at 5°C 🔲	charge for electricity is 8 pence per unit,	c. The weight of fish, the amount of	Name
o. Around 20% more oxygen than	approximately how much does the pump	food fed and the frequency of water	
oondwater at 5°C 🔲	cost to run per week?	turnover	
Roughly the same level of oxygen as	a. 40 pence		
oondwater at 5°C 🔲	b. 67 pence	21. The main advantage of quarantining	
40 12%	c. 78 pence	new fish is:	
6. Which of the following statements is		a. It allows time for any latent disease	
nost true?	14. Which of the following statements	problems to show themselves	Address
a. Koi ponds are best constructed in	about pond plants is NOT true?	b. It eliminates the risk of introducing	Audress
natural hollows because this is where	a. Submerged 'oxygenating' aquatics	disease organisms to existing fish	
onds are found in nature	produce beneficial oxygen all the time	c. Neither of the above: there are	
o. Garden ponds are best constructed	b. Plants can use up waste products like	no major advantages to	***************************************
inder trees because these supply	ammonia, nitrite and nitrate	quarantining fish	The state of the s
valuable shade 🔲	c. Submerged plants provide a large	The same of the sa	
c. It is better to not build a garden pond	surface area for epiphytes to grow	22. The organisms found in the highest	***************************************
n a natural hollow, because it is more		numbers in biological filters are:	
ikely to flood in wet weather	15. Photosynthesis is a process where:	a. Nitrifying bacteria which break down	
mory to mood in wet weather	a. Chlorophyll and water are converted	ammonia and nitrite	
7 Which of the fallenting made dale as		b. Protozoa which feed on bacteria and	Postcode
7. Which of the following materials can	into energy		1 0310000
be used in pond construction?	b. Carbon dioxide and water are converted	fine waste particles	
a. Polyethylene 🗌	to carbohydrate and oxygen	c. Heterotrophic bacteria that	Tel:
o. Ethylene Propylene Diene Monomer	c. Energy from sunlight breaks down	break complex wastes down into	Control of the Contro
c. both a) and b) above	carbohydrate to release oxygen	e.g.ammonia	

### This Month's Top Tip(s) – for Ponds

One from Alan Ratcliffe – if you net the whole pond to avoid Herons, use a black mesh, not a green one. Green reflects light and makes it difficult to see the fish. A black mesh virtually disappears.

If you want to build a pond on a sloping garden – or want advice on how to repair a leaking pond, see my articles on this web page:

http://www.drdmford.com/page2.html (Articles number 4 & 5).

#### **More History**

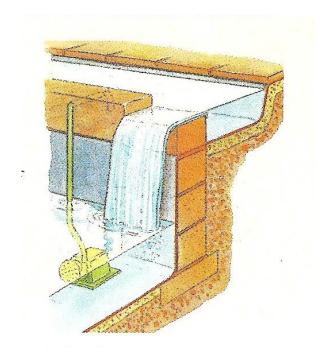
Ponds used at Mars Fishcare for nutritional research were simple plastic containers used by industry for storage. When filled with water they started to bulge! Hence the supporting frame. A simple solution for you to make instant ponds for breeding stock ...



(Yes, that is me in food factory uniform.) The three 'ponds' were on the ground, on a pallet, then two pallets. This height difference made it easy to siphon water from the top pond to all and then a bio-filter pump back to the top pond. Being plastic it was easy to drill holes, fit plastic hose fittings and connect via garden hosepipes.

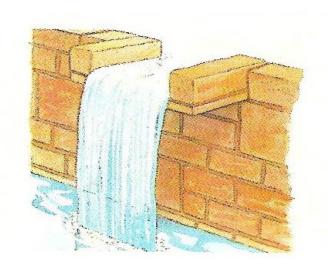
#### **Water Falls**

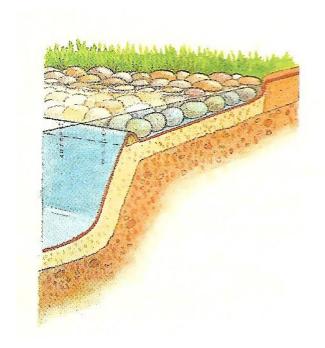
If you already own a pond, adding a waterfall will add beneficial aeration.



The design depends on your type of pond, but you will need a submersible pump plus pipework – which can be hidden behind that design.

If the pump or biofilter is a separate unit, build an outflow that gives a pleasing cascade.





If pebbles are added (increases aeration as well as aesthetics) build a slight lip to prevent them washing over the waterfall.

#### **Another Pond**

If you prefer to keep all your Goldfish in the Fish House, you could always add a 'swimming pond'. It is all the rage now in Europe – a few here in the UK (see <a href="https://www.gartenart.com">www.gartenart.com</a>). It will cost you about £90,000. Fish are not allowed in swimming ponds, but at least the water is gin-clear. They say.



### **Minutes of the July Meeting**

With it being an altered date meeting, most members had to send apologies.

The only message Sherridan wanted to minute was to remind members that the Open Show by NEGS that will take place on Sunday 16<sup>th</sup> of July at Redby Community Centre, Fulwell Rd, Sunderland **SR6 9QP**. Even if you are not showing please visit to support them. Plenty of free parking! You can also visit the attractive seaside of Redby just minutes away.

If you are showing, download the Entry Form from here:

## NEGS2017new.pdf

Next meeting at The Church Inn will be Tuesday August 8<sup>th</sup> at 8pm. Nationwide members always welcome.

But please let Sherridan know if you can't make it.

