

Dear BioNova Partners & Customers,



the days are closing in and Mother Nature is preparing for wintertime and so it's getting quieter with the Natural Swimming Pools.

The pictures of the BioNova Project of the Month may remind you about summertime. This beautiful NSP with its rural design is the first BioNova Natural Pool built in the USA.

To help you visualize the international BioNova family we will present you - as usual - a BioNova partner company in detail also this month. This time you can read more about the gardening- and landscaping company Peter Stockreiter from Mettingen (Germany).

We also want to introduce you to someone else, namely our friend the frog, a small inhabitant of the NSP, who is often declaimed as a disturbance - not without good reason at all. But you should not forget, that his attendance is also a sign, that everything is ok with the biological system!

The pumps which are installed at BioNova NSPs work in contrast to many pumps in a very quiet and completely inconspicuous manner. As they are a very important technical component of our facilities we want to give you some basic information about them.

Last but not least we feature a BioNova NSP from 1994. It's very important for us to show you that our biological system works - not only in the present, but for years! And what could be a better proof for this than a successful project?

You see we have lots of interesting information and beautiful pictures prepared for you - so enjoy reading!

BioNova Global Head Office

*Rainer Grafinger, Christine Schoeck,
Andrea Enseleit, Stephanie & Jusuf Rifatov*



Project of the Month



These pictures remind us about summer and sun - even now during a foggy, gray autumn day! They were taken at Nantucket, an island off the coast of Massachusetts near Boston, where our local Partner Jesse Dutra Landscape finished the first BioNova Natural Pool in the USA during the summer of 2012.

The swimming area is about 788 sq.ft. and 3 feet to 6-1/2 feet deep, while the separated regeneration zone is dimensioned at about 575 sq.ft. To build the NSP they used shotcrete (gunite) with a steel reinforcement. It was sealed with a special

waterproofing plaster and other materials. The whole NSP is surrounded with local New England fieldstone. The advantages are that they are local because there is less carbon/transportation involved and they match the natural landscape.

The swimming area was designed to be placed a little higher than the regeneration zone to allow bathers to look down on the planted area. The pool water flows over an overflow gutter between the stones into the planted area. A special thing about this NSP is the small sitting basin which was built next to the swimming area. Jesse Dutra placed tropical water plants for the clients to enjoy there during the summer time.



The lucky owners were always sustainability minded and very conscious on what they do to the environment as well as their health.

They wanted something that was naturally beautiful. That is why they thought the NSP was a good alternative to a chlorine pool.



The BioNova Family



You're living in the wider area of Osnabrück (Germany) and looking for a professional and dependable gardening- and landscaping company? Then the firm of BioNova Partner Peter Stockreiter is perfect for you.

Even in the second generation this company helps their customer's garden dreams to come true. No matter of planning a new garden, re-designing an existing garden or maintenance - Peter Stockreiter and his team make a professional job.

This includes also pavement, building of walls and stairs, lawns, plantings and the working with wood and metal, green roofing and irrigation plants.

In the course of their BioNova partnership in the year 2005 they enlarged their repertoire by building BioNova NSPs. They can also go back to a big wealth of experience - their own knowledge and the knowledge of the international BioNova partners.

The company Stockreiter often uses the element water to refresh the optic and the flair of gardens. In addition to this they also offer the installation of water fountains on a high level and also help you to present your NSP in the proper light with the help of smart lightning systems. They also clean up your biological facility or do the regular maintenance.

You need more information about Peter Stockreiter and his team? Then please check out their homepage www.stockreiter.de or contact them directly per Email: info@stockreiter.de or phone: 0049-0 54 52/ 97 32- 40



Dates

November 2012

PoolSpaPatio, November 06 - 08, 2012, New Orleans (USA)

PoolSpaPatio is one of the most important trade show for the swimming pool industry in the USA. North American Partners James and Hae-Sun Robyn will be there along with their Marketing and Technical Support leader, Alan Weene, to inform all interested attendees about BioNova NSPs. Additionally, James will be lecturing with the Genesis 3 University program.



Preview to the dates of the training events in 2013

BioNova training, German speaking partners January 28 - February 01, 2013, Munich/Germany

The BioNova training for beginners and advanced partners in the German language will take place at the above-mentioned date in Munich (Bavaria / Germany). Please note this date! We look forward to this event and hope for many partners to come.

BioNova training, English speaking partners February 13. - 17, 2013, Munich / Germany

All English speaking partners should make a special note on their calendars with these dates. We hope to welcome as many of you as possible to the annual BioNova partner training in English, in Munich. This training session will be for beginners and advanced partners. Save the dates and make your air reservations. For North American Dealer Partners, contact Alan Weene for more details.



Pumps

Base of the water circulation at NSPs

The heart of the circulation system in the NSP is the pump. It enables the circulation of the water and is therefore one of the most important technical components of a functioning NSP installation. There are any number of different pumps on the market, but they all need to convert electricity into moving water.

Typically, we will be using either a centrifugal pump that is flooded suction for installations where the pump will be below water level, or self-priming, where the pump will be installed above the water level of the pool. Submerged pumps are also a possibility in certain instances, although compliance with electrical codes here can be an issue.

The location of the pump is also always a consideration. It is important to place the pump where it will not be heard or seen, where it is readily accessible, where it must make sense for the hydraulics and where electrical can be attached.



Our Animal of the Month - The frog

At nearly every pond you can find the frog. You can hear him croaking at the NSPs too. Some find his concerts annoying but actually it's a very good sign for the water quality of your biological facility. The little green water animal only settles down at stable biological systems.

From the zoological perspective the frogs are classified as amphibians or more special as batrachians. The batrachians are subdivided into frogs, toads and greenbacks. At the NSPs you can mostly meet the large water frogs, which can be 6" long. You can find the larvae of this frogs especially at spring at your NSP. First they look like a jelly-like, translucent mass before they turn black. From these larvae then hatch tiny tadpoles which evolve to frogs in short time.

Please don't kill them! They are important inhabitants of the NSP. In Germany they are even protected animals and it is forbidden to kill or resettle them at all.



BioNova historical



In the year 1994 the leader of the BioNova Group, Rainer Grafinger, planned and built his first NSP near Klagenfurt (Carinthia, Austria).

He was supported then by BioNova Founder Gerhard Brandlmaier, who had created numerous NSPs in the years before. At this time Rainer Grafinger was the manager of a gardening and landscaping firm at Klagenfurt.

The homeowners (a couple, both doctors) had realized the signs of the times at an early stage and they decided on an ecological building method. Their Natural Swimming Pool is still in

use today. It is 2.5 meters (8' 2") deep and has a 45 qm (480 sq.ft.) swimming area. For separating the circulating regeneration zone from the swimming area Rainer Grafinger used geotextile bags, which was a typical method at that time. In the regeneration area he planted water and marsh plants.

At this time it was state of the art to use a plastic tub with a grating (the so called "Schafferl") for the skimming of the water surface. After finishing this NSP, during the following 2 years, over 45 NSPs were built by BioNova at Carinthia.

