

## Dear BioNova Partners & Customers,

This month, we will present to you an extraordinary project from our Australian partner Peter Watson. Furthermore, we will introduce to you the newest members of the BioNova Family - the company JOHN garten + landschaftsbau. As our special topic of the month, we will provide information on how to eliminate the phosphate in Natural Swimming Pools. Last but not least, you can read about a beautiful „historical“ Natural Swimming Pool built in 1997 at Bad Wörishofen. Enjoy reading!

Your BioNova Global Head Office Team

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## Project of the month



Our project of the month is located in Coledale, in the Australian state of New South Wales. Built for an eco-resort, this large and beautiful natural swimming pool has a swimming area of about 1,940 ft<sup>2</sup> and a regeneration area of about 1,615 ft<sup>2</sup>. The property is the actual site from which the first fleet in Australia, led by Captain Cook, explored the coast line. Thus the property is protected under strict historical preservation laws, with very detailed restrictions regarding what can be constructed there. A traditional pool, for example, would not be allowed because of the chemical requirements. It took the client three years to get government approval to begin construction on the property.

The project has very strong “eco credentials”. The concrete used for the pool contains no

cement at all - the first application of this kind of concrete in the world. The pool is heated by the earth with a geo-thermal system. All of the water is filtered rain water, and all of the power comes from solar energy. All of the wood used in the project is recycled timber, and all of the rocks come from within the property. This outstanding pool is now a finalist in a contest that will announce the “Best Pool in New South Wales” come this September.

## The BioNova Family



May we introduce you to the „babies“ of the BioNova Family?

The company JOHN garten + landschaftsbau KG, based in Allstedt (Saxony-Anhalt, Germany), is a relatively young enterprise. The company was founded by the couple, Grit & Volker John, in 2004.

Grit John first graduated with qualifications as a florist. After working several years in this field, she decided to go back to school and get her Diplom - Ingenieur diploma (similar to Master of Engineering) for landscaping architecture. Her husband is a skilled gardener, who also went back to school to earn his Masters of Gardening degree. Meanwhile, they had grown a successful gardening and landscaping company.

In September 2007, they decided to join the BioNova Family to enlarge their product line.

They believe strongly in the concept of biological water treatment, so much so that they decided to build a BioNova NSP in their own yard. The 1,140 ft<sup>2</sup>, 7.5 ft deep NSP abuts their house's terrace. The John children love to jump from the wooden gutter or the diving rocks into the water. Those who like to take it slow can choose the entrance into shallow water.

More information about this company can be found at [www.john-gala.de](http://www.john-gala.de).

## Dates 2011

Training events, fairs, meetings – we've got a lot going on with the BioNova Family! Review the following to see where the next activities of the BioNova Global Head Office and the BioNova Partners will take place:

### June 2011

#### Garden festival

June, 02 - 05, 2011, Kassel (Germany)

The BioNova Partner Company GaLaBau Niklas Sobotka will take part in this festival.

For further information please visit:

<http://www.gartenfestivals.de/gartenfest-kassel-informationen.php>

### July 2011

#### Green Building Conference

July, 13 - 14, 2011, Johannesburg

The company Ecosis will present BioNova NSPs at this event at Johannesburg, South Africa.

## Movement of the BioNova Global Head Office

In the middle of May, our big move finally happened!

The BioNova Global Head Office moved to a bigger office.

Once again our new postal address:

BioNova  
Neufeldstr. 16  
85232 Bergkirchen / OT Günding

Phone & Fax numbers remain the same.



## Phosphate Reduction in NSPs



An important requirement for stable water quality in natural swimming pools is to minimize phosphate content, as too much phosphate in an NSP leads to algal formation.

The BioNova system has the ability to reduce phosphate that is introduced by the bathers. The phosphate is stored temporarily in the gravel substrate and later assimilated by the roots of water plants. In addition, little tiny insects that live in the NSP help to biologically filter phosphate out of the water. But there are some problems with the fill water used in many regions: the phosphate content of the faucet water is often over the permissible value of 0.01 mg/L.

influx of phosphate, but because some water always evaporates, you must refill the pool from time to time. So what can be done?

For filling the whole NSP with water for the first time, BioNova offers an external flocculation filter. This mobile unit can be borrowed from our BioNova partners. The BioNova gravity filter is adapted to the permanent installation in the NSP. A special blend of iron granules in the filter absorbs phosphate before it can get into the NSP system.

No biological system can absorb a continuous

## BioNova Historical



In 1997, a beautiful NSP was built on the property of Bad Wörishofen in Germany. The owners first wanted to have a chemical pool in their yard, but when they heard about NSPs, they decided to choose the biological alternative.

The NSP is about 1,615 ft<sup>2</sup>, built according to the BioNova single-chamber building method.

The used water flows through overflow gutters into the regeneration zone, where beautiful water plants and marsh plants grow.

The unplanted swimming zone is about 8 ft. deep.

A natural stone wall protects the house's terrace from onlookers.

The clean water from the regeneration zone flows back into the swimming pool by way of a small waterfall, which also adds oxygen to the system and supports the biological water treatment processes.