

Green Roof Service LLC presents:

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210 North Hickory Ave.  
Bel Air, MD 21014  
Ph: 443-345-1578



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### Solar Power World: 4 Questions with Ryan Miller

Our very own Ryan Miller was recently interviewed for the Solar Power World Magazine, focusing on our Sun-Root™ System. Solar Power World is written with a focus upon Technology, Installation and Development, reaching tens of thousands of industry professionals.



### FBB Green Roof Symposium 2013

On February 21st, Jörg had the pleasure to join the German FBB at its eleventh annual Green Roof Symposium. The FBB is the world's oldest Green Roof association, and also the smallest with 120 members. But don't let the size fool you, these people are some of the most experienced green roof professionals in the world.



### Cruise Ship Lawns Designed by GRT Featured in Wall Street Journal

Thanks to Green Roof Technology, five of the Celebrity Cruise Ships are now equipped with luscious green lawns on the upper decks, creating a common space for everyone to enjoy! The task of placing a lawn on a cruise ship wasn't such a breeze. The weight of the roof and the salinity in the air proved to be challenging.



### First International Bird Airport on Intensive Green Roof

Airports are plentiful in our world, but a unique concept involves creating airports especially for birds. In 2012, an exhibition on the roof of the Art and Exhibition Hall in Germany, highlights this common area as a destination point for birds.



## Solar Power World: Four Questions with Ryan Miller

Our very own Ryan Miller was recently interviewed for the Solar Power World Magazine, focusing on our Sun-Root™ System. Solar Power World is written with a focus upon Technology, Installation and Development, reaching tens of thousands of industry professionals. "Four Questions with Ryan Miller of Green Roof Technology" will be featured in the upcoming April issue of the Solar Power World Magazine. The online version can already be previewed on their website, [SolarPowerWorldOnline.com](http://SolarPowerWorldOnline.com)!

SPW: What is the concept behind the Sun-Root System?

Miller: As a green-roof company for more than 30 years, we have seen many innovations to modern green roof technology that makes it more marketable and affordable. When you sit down with clients, they want to know how much they are spending and what is their return. The payback of a green roof lies somewhere between 15 years to 25 years in most cases, and for many building owners that is not something that excites them. So we looked for ways to shorten this payback period while still meeting our goal of increasing the world's green spaces.

Continue reading here at [SolarPowerWorldOnline.com](http://SolarPowerWorldOnline.com)!



## FBB Green Roof Symposium 2013

The German FBB (Fachvereinigung Bauwerksbegrünung e.V.) is the oldest Green Roof association in the world and with around 120 members probably one of the smallest. However, most FBB members are considered as leaders in modern green roof technology and their average green roof experience is far over 20 years. It is an elite group that has seen everything you can imagine that is related to vegetation on impervious areas. As the father of all green roof associations, this year's event was again filled with innovations, information and trends. The FBB President, Dr. Gunter Mann, pointed out that there is a huge potential for the industry to increase the annual green roof construction. In 2012, the 120 FBB members reported over 40,000,000 square feet of new construction, a significant addition compared to the previous years. The true annual new green roof construction in Germany might be over the double however the Germans are modest and not interested in quantity, but specifically in quality. Quality of installation, intelligent research and decent public relations are the foundation of the FBB. In partnerships with other associations (Landscape Association, Concrete association, Roofing association, Association for Water Protection, along with many more) it is impressive to hear about the successful public awareness on green roofs.

The elite group at the FBB does a great, inexpensive and super-efficient job for a better and sustainable environment, mainly throughout Germany and reaching out in to the world. For many decades they have been setting milestones for a growing, global industry and it is always a blessing to mingle with the biggest, most experienced and best-educated green roof professionals in the world. Bravo!



### **Cruise Ship Lawns Designed by GRT Featured in the Wall Street Journal**

Over the past five years, Green Roof Technology has had a huge hand in designing lawns on several cruise ships. Cruises in the past have consisted of mainly indoor space, and although outdoor space is still limited today, much of it is being put to good use. Five of Celebrity's cruise ships are now complete with Lawn Clubs, allowing passengers to enjoy luscious, green grass on the boat. Endless activities such as live music, bocce ball or croquet and dancing events are a few that can take place on an outdoor space so green. The five cruise ships featuring lawn clubs include the Reflection, the Silhouette, the Eclipse, the Equinox, and the Solstice.

The task of placing a lawn on a cruise ship wasn't a breeze. Many types of grass were tested before the perfect variation was found, ultimately withstanding the excessive salt and winds of the sea. Challenge number two involved the weight of the lawn, making sure the roof could withstand this much weight. A mixture of volcanic pumice, sand and clay creates the substrate on which the grass grows.

[View the Wall Street Journal Article on Celebrity's Lawn Clubs!](#)



### **First International Bird Airport on Intensive Green Roof**

Airports are plentiful in our world, but a unique concept involves creating airports specifically for birds. An exhibition on the roof of the Art and Exhibition Hall over the summer of 2012, highlights this common area as a destination point for birds. To aid this bird airport (ornithoport), nesting boxes and feeders were installed, as well as approach and departure structures, complete with flashing airport signals and safety announcements. All together this presentation is not only an awesome art piece, but probably the best landing facility for birds from all around the world. The curator of this project, Professor Res Ingold explains, "In our case, it is an artistic project with scientific backing."

Founded in 1992, the Art and Exhibition Hall of the Federal Republic of Germany has played an important role in the community of Bonn, Germany. Designed by the architect, Gustav Peichl, the building displays various exhibitions in fields of art, archeology, cultural history, science, and technology. Aside from exhibitions, the community center frequently hosts symposiums, conferences, performances and concerts. One of the more attractive aspects of the building is the intensive rooftop garden, which is often site for sculpture displays. This vegetated rooftop is a nice addition for relaxing with a fantastic view of the surrounding city. In the summer refreshments are served at the beer garden, wildflowers brighten the landscape and the air is busy with buzzing honeybees. Multiple honey bee colonies call this rooftop garden home. In 2012 these little magnificent creatures produced 1,200 pounds of honey! Accurate daily monitoring of the productivity of the honey bees is accessible online in German, French and English.