

## NanoQuantics Supports Annual Mine Safety Day Competition *Company to Exhibit All-Natural Dust Control Solutions*

(August 3, 2012)- Mining has been a way of life in Southwest Virginia for many years and the industry itself is important to the economy in Virginia. Safety of the miners is a must. Annually, volunteer mine safety teams participate in safety competitions to hone their skills for real-life emergencies.

On August 7-9, 37 teams, over 400 team members from 5 states, will be in Blacksburg, VA for the [Virginia Mine Institutes' Safety Day](#). Mine rescue contests are designed to sharpen skills and test the knowledge of first responders to mine safety emergencies. Team members are challenged with situational scenarios while being timed and observed by judges. The Blacksburg event categories include first aid and mine rescue.

The three days of drills and practice are often unpaid and many of the rescuers are volunteers. NanoQuantics, located in Wise, VA, is supporting this event and will have an exhibit displaying its eco-friendly dust abatement and suppression solutions.

When dust particulates from mining or construction sites become airborne, they can result in respiratory problems and cardiovascular conditions. Dust can cause accidents due to reduced visibility and can increase wear and tear on equipment. NanoQuantics novel, all-natural biopolymer product known as [DUST SENTINEL™](#) was developed



for soil stabilization and erosion control. Mining sites have an difficult time mitigating refuge dust, largely because their soils typically do not retain moisture. Dust is difficult to mitigate whenever the weather is dry. NanoQuantics' environmentally friendly product, when applied to the surface at a mining site, binds with the soil to resist wind action and limits particle movement.

DUST SENTINEL produces immediate savings and benefits:

- By keeping the soil in place, water trucks are not running as often.
- The cost of water, including pumping, is reduced;
- The fuel consumption of those trucks is reduced;
- The labor costs for the watering tasks are reduced;
- The emissions produced by those trucks are reduced;
- Wheel washing and equipment maintenance is reduced; and
- With the improvement of visibility, safety is increased.

NanoQuantics' dust containment solution can be applied on haul roads, coal stockpiles, rail car capping, or on any site with disturbed and/or open areas where airborne dust is a challenge.

Additionally, at the Mine Safety Event NanoQuantics will be discussing [SOIL SENTINEL®](#), a USDA biobased certified product excellent for rapid vegetation even in poor the soils of former mine sites.

NanoQuantics' solutions are produced from renewable, natural resources. These products are water based and offer viable alternatives to synthetic polymers, which expend petroleum and oil resources, and can be harmful to the environment. For more information about NanoQuantics and its solutions, see [www.nanoquantics.com](http://www.nanoquantics.com).



*At a coal site in South Western Virginia, NanoQuantics evaluated SOIL SENTINEL against a water-only hydro-seeding application. The section treated with SOIL SENTINEL (right) grew much more quickly and after eight weeks the treated site resulted in much longer and thicker coverage.*

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**About the Virginia Mine Institute:** Virginia Mining Institute-Northern division ([www.virginiamininginstitute.org](http://www.virginiamininginstitute.org)) located in Bluefield, VA, is a non-profit group that promotes safety of the mining industry. The organization hosts monthly meetings related to the mining industry and the annual mine rescue contest. Proceeds from the competition provide scholarships for students of coal mining families that attend Southwest Virginia Community College.

**About NanoQuantics, Inc.:** NanoQuantics ([www.nanoquantics.com](http://www.nanoquantics.com)) was established in 2010 and is located at the Americas Appalachian Energy Research Center in the Lonesome Pine Regional Business & Technology Park in Wise, VA. The company is developing all natural soil amendments to aid in plant growth and soil stabilization solutions for dust and erosion control. Follow us on Twitter at <http://twitter.com/nanoquantics> or email us at: [solutions@nanoquantics.com](mailto:solutions@nanoquantics.com)

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