**Fullerines**

06-28-14 - **The quest for effective radio-protectors has been underway for decades** - **New radio-protectors** are tested under very stringent conditions.

<http://c60water.com/en/protection.html>

In the **Centre for Biological Studies** in Pushchino (Russia), rats were exposed to X-ray doses causing a severe radiation disease and death of all animals. The use of fullerene water made for the survival of 15 % of animals.

<http://www.sciencedirect.com/science/article/pii/S0891584909003669>

The official preclinical studies in the **Grigoriev Institute for Medical Radiology of the AMSU** tested the effect of water at lower radiation doses. In the group where experimental rats were given ordinary water 37 % of the animals died after being exposed to radiation. Intake of fullerene water during 15 days (5 days prior to exposure and 10 day after it) made for the survival of 95 % of animals, the course of the radiation disease being significantly relieved.

<http://ipacom.com/images/Articles/report_pre_clinical_med_rad_ru.pdf>

In May 2011, the administration of the **Institute for Physiologically Active Compounds** addressed the government of Japan with an offer to help those who suffered from radiation exposure after the NPP Fukusima-1 accident.

<http://ipacom.com/images/Articles/letter%20to%20the%20goverment%20of%20japan_en.pdf>

 **source**

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**Fullerene**

<http://en.wikipedia.org/wiki/Fullerene>

 <http://www.bing.com/images/search?q=fullerene+water&qpvt=fullerene+water&FORM=IGRE>

 the Fullerene C60 was used to develop new CPU Transistors, mixed with other elements, because of the 6 electrical contact points, which enables the processor to use the 10 number system base 10, and not binary 1and 2 anymore. This is why you are seeing the exponential leap in computer Data gathering abilities.

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07-07-14 – **Shungite–Fullerenes for Water** - Shungite is a unique combination of carbon and silicate minerals found in an ancient deposit in Karelia Russia.

<http://www.dancingwithwater.com/products/shungite-fullerenes-for-water/>

 **Here is an excerpt that may have ramifications for Targeted Individuals**

*According to Russian research, fullerene-rich shungite has the ability to neutralize numerous forms of negative energy. It attenuates electromagnetic emissions essentially providing protection from electromagnetic fields. Shungite has been successfully used for many years in Russia to assist patients with depression, trauma, and other emotional and psychological  disturbances. Special shungite chambers have been constructed for this purpose.*

 **Buy Metallofullerene, Fullerene and Nanotube**

 <https://sesres.com/FullerenesPrices.asp>

 **NANOTUBES**

 <https://sesres.com/Nanotubes.asp>

 <http://www.bing.com/images/search?q=fullerene+water&qpvt=fullerene+water&FORM=IGRE>

 **Water caged in buckyballs**

 <http://phys.org/news/2014-05-caged-buckyballs.html>

 Fullerene is a molecule consisting of carbon atoms and is the third after diamond and graphite allotropic form of carbon.

Fullerenes can be of a different type C60, C70, etc., depending on the content of carbon atoms. The most stable and best studied - is the C60, containing 60 carbon atoms.

Fullerene is the only molecular form of carbon, in contrast to the diamond and graphite, which are only crystalline forms with a certain spatial arrangement of carbon atoms in the lattice.

Nature brought together in one object, many contradictory concepts. Fullerene is a link between the organic and inorganic matter. This is the molecule, and the particle, and the cluster. The diameter of the molecule C60 is 1 nm.

If you look inside the fullerene, we find only an emptiness pierced by electromagnetic fields, containing "nothing" - a vacuum enclosed in a carbon shell, as in the original container. And the walls of the container do not allow penetration into it of any material particles (ions, atoms, molecules).

Fullerene molecule can be called a "vacuum bubble", which does not fit the well-known thesis that nature does not tolerate a vacuum. Vacuum and matter are two pillars of the universe that harmoniously united in one molecule.

Fullerene is still a subject of research for the scientists around the world in the field of chemistry, physics and medicine. You cannot eat it (yet!), but you can drink it.

**Fullerene special properties**

Among the fundamental properties of fullerenes, which are apparent at the level of both cell and whole organism, it should firstly be noted its antioxidant properties which suppress the processes of per-oxidation and free-radical oxidation.

Getting in our body, fullerenes behave as the most powerful and most long-acting antioxidant, as a means of fighting with free radicals, so-called oxygen atoms, which lack a single electron, which they greedily taken away from any living cell, the genetic spiral. Antioxidant activity of fullerene in the 100 - 1000 exceeds the effect of known antioxidants (eg vitamin E, dibunol, β-carotene).

Thanks to its acceptor properties, fullerene is able to selectively interact with other molecules, and in water environment to transfer these properties in orderly layers of water at a considerable distance from its surface.

Fullerenes normalize cellular metabolism, increase enzyme activity and increase the stability of the cell, including its genetic apparatus to external influences (heat, viruses, etc.). The regenerative ability of body tissues increases in its turn.

Fullerenes normalize the nerve processes, influencing the exchange of neurotransmitters, improving the capacity of man and his resistance to stress.

Besides, fullerenes have an explicit anti-inflammatory and antihistamine effect, thus relieving pain, suppressing the development of many allergic diseases and improving immunity.

Fullerenes function even in ultra-small doses and their effect even after single dose lasts for months.

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07-13-14 – **Boron 'buckyball' discovered** - the molecule has been dubbed borospherene

<http://phys.org/news/2014-07-boron-buckyball.html#ajTabs>

 **A review article summarizes the state-of-the-art knowledge about graphene grain boundaries**

 <http://phys.org/news/2014-07-article-state-of-the-art-knowledge-graphene-grain.html#nRlv>

 <http://phys.org/news/2014-07-nanosensor-vapors-based-graphene-silicon-heterojunction.html#nRlv>

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07-17-14 – **SHUNGITE - SHORT SUMMARY**

<http://www.dancingwithwater.com/products/shungite-fullerenes-for-water/>

There has been dedicated research done on fullerenes... and the scientists doing this research won the Noble prize as it was deemed that their work was so important to mankind. Fullerenes are powerful anti-oxidants... and their presence in this stone seems to be quite unique. It has been noted that this stone has strong healing qualities... and that Shungite will help to neutralize any organism within your body that is harmful to you.

Shungite is a unique combination of carbon and silicate minerals found in an ancient deposit in Karelia Russia. Its uniqueness stems from the presence of hollow molecular carbon cages known as fullerenes embedded within the rock. Fullerenes (also called buckyballs) look like soccer balls—molecular hexagons and pentagons bound together in a hollow cage or tube. They were named after the noted architect, Buckminster Fuller because they follow the same architectural pattern as the geodesic domes he created.

**Fullerenes in Shungite -** The rock deposit found in Russia (shungite) is the only known natural source of fullerenes on Earth (with the exception of a few meteorites). The rock has been studied extensively by Russian scientists, but only within the last few years has information regarding shungite reached the Western world. According to Russian research, fullerene-rich shungite has the ability to neutralize numerous forms of negative energy. It attenuates electromagnetic emissions essentially providing protection from electromagnetic fields. Shungite has been successfully used for many years in Russia to assist patients with depression, trauma, and other emotional and psychological disturbances. Special shungite chambers have been constructed for this purpose.

**Shungite for water -** When placed in water, fullerenes in shungite attract and neutralize waterborne contaminants. Shungite has been used commercially in Russia as a water purification media since the 1990s. Among the list of contaminants it will remove are: bacteria (and other microbes), nitrates, heavy metals, pesticides, volatile organics, pharmaceuticals, chlorine, and fluoride. Its ability to cleanse water goes far beyond carbon filtration as demonstrated by the water from lake Onega near the shungite deposit in Russia. Water from the lake can be used today for drinking without any prior treatment—the result of thousands of years of interaction with shungite. One of the reasons shungite has the ability to neutralize contaminants is because the fullerenes within its composition can hold a tremendous amount of hydrogen. The stone has been documented to have a high oxidative/reductive capacity. Shungite water is known for its antioxidant effects.

Commercial use of Shungite filters started back in 1990’s. During that time many experiments and studies in regards to Shungite influence on a human body were conducted. Scientists came to a conclusion that Shungite water is absolutely non-toxic. It was also proven that Shungite water can be used without any prior boiling! The water has a strong antibacterial effect. During the experiments,water was contaminated with streptococcus of groups A and D. Experiment showed that only after half an hour in Shungite water the concentration of streptococcus group D decreased by the factor of a 100 and group A by the factor of 900! Shungite cleans water of various chlorine compounds, nitrates, copper,magnesium, iron, cleans up visually dirty water, and eliminates sour taste. Shungite completely removes all heavy metals, chlorine, and enriches drinking water in potassium.

There is a whole lot of stuff being said of shungite that ranges from miracle healer to water purifier... to it having every element within it... to, well... there is a lot of stuff being said. The briefest gloss is that shungite is kinda like jet, because it is carbon that is created by decaying organic material, in shungite's case, underwater. The difference between jet and shungite is that shungite was made from the first algae that gave birth to our atmosphere because there were no plants yet. Then the organic material was exposed to and transformed by volcanic heat. This gives shungite all of the elemental associations (which is as sexy as it gets with a rock, so to speak). Water, because it the decaying matter was in water. Air, because the algae from which it was formed created our atmosphere. Earth, because, well.. it's a rock. Fire, because of the transformation undergone through the volcanic heat. And Spirit, because the initial biomaterial was alive. It's pretty dang old too, though the range on the scientific sites varying its age between millions to approximately 2 billion years old. Meh, it's old.

Shungite is very old... ancient in fact... said to be around 2 billion years old. It is an extraordinarily positive stone... and using it may bring you a variety of blessings. This is an amazing stone, and one that is beneficial to a healthy life.

It is the only known natural material known to contain fullerenes, which are powerful anti-oxidants. Fullerenes were brought to our attention when research on them gained the scientists a Nobel prize.

This is because the fullerenes in this stone will cleanse water then infuse it with a potent healing vibration. The energy embodied within this ancient stone is said to absorb and eliminate anything that is a health hazard to human life... and it has active metaphysical properties with strong healing powers.

**Where Does It Come From -** This is a rare stone... and has been found only in the Karelia area in Russia. It is not new to people of the region, as Czar Peter was known to have come to the region to use water that had been infused with this mineral. The origin of this ancient, 2 billion year old stone is clouded in mystery... as how it came to occur on this planet is unclear.

It is estimated by scientists that shungite is almost 2 billion years old. It's appearance reminds one of coal, it is found in very ancient layers of the Earth’s crust that were formed before life forms existed on Earth.

Shungite is sometimes called the "Stone of Life" due to it's healing and antibacterial properties. Many people use shungite to create a healing spa in the home by placing it in some water to purify and charge the water with cleansing energy.

<http://www.dancingwithwater.com/products/shungite-fullerenes-for-water/>

 <http://www.shungitenewyork.com/?gclid=CI60_svVmr8CFa4WMgoddG8AYw#!aboute-shungite/cbh4>

 <http://stacierocks.blogspot.com/2012/11/shungite-not-for-sissies.html>

 <http://www.healing-crystals-for-you.com/shungite.html>

 <https://crystal-cure.com/shungite.html>

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09-2011 - **Pristine C(60) fullerenes inhibit the rate of tumor growth and metastasis**. Exp Oncol. 2011 Sep;33(3):162-4. Prylutska SV1, Burlaka AP, Prylutskyy YI, Ritter U, Scharff P. - (1 Taras Shevchenko National University of Kyiv, Institute of Biology, Volodymyrska Str., 64, 01601 Kyiv, Ukraine)

 **Abstract**

**AIM**: To estimate the impact of C(60) fullerene aqueous solution (C(60)FAS) on the rate of transplanted malignant tumor growth and metastasis.

**METHODS**: Lewis lung carcinoma was transplanted into С57Bl/6J male mice. Conventional methods for the evaluation of antitumor and antimetastatic effects have been used.

**RESULTS**: The C(60)FAS at low single therapeutic dose of 5 mg/kg inhibited the growth of transplanted malignant tumor (antitumor effect) and metastasis (antimetastatic effect): the maximum therapeutic effect was found to be of 76.5% for the tumor growth inhibition; the increase of animal life span by 22% was found; the metastasis inhibition index was estimated as 48%.

**CONCLUSION**: It was found that water-soluble pristine С(60) fullerenes efficiently inhibit the transplanted malignant tumor growth and metastasis.

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07-21-14 – **Hydrated Fullerenes – Shameless Homeopathy Scam** -

<http://c60antiaging.com/c60-scams/hydrated-fullerenes-shameless-homeopathy-scam/>

 **Smart Economy**

 <http://smarteconomy.typepad.com/smart_economy/2010/01/reversing-dementia-and-alzheimers-with-hydrated-fullerenes-c60.html>

 **POSITIVE EFFECTS OF C60/ОО ACTION ARE CAUSED BY FORMATION IN AN ORGANISM OF HYDRATED C60 FULLERENE - C60HyFn**

 <http://www.owndoc.com/pdf/C60-anecdotes-invaluable-to-andrievsky.pdf>