

**Editor's Notebook**



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Editor & Publisher

**New Energy Ideas**

The notion that the world has a shortage of energy is disproved almost daily as revolutionary new ideas keep pouring out of inventors' workshops. Energy is all around us! We just haven't figured out how to use it yet. Here are three promising new ideas that make use of the power of nature.

**Power Your Farm With Lightning**

This "shocking" new source of power comes from Dekalb, Illinois inventor Steve Le Roy who has developed a device that intentionally generates lightning in order to harvest the energy discharged. He has built a prototype that generates 3-ft. bolts of lightning (which can be as loud as gunshots), each with enough power to light a 60-watt bulb for 20 min. Le Roy believes a full-size system could generate enough electricity from one lightning bolt to power 30,000 homes for a day. Le Roy says if you've ever seen what lightning can do when it hits a tree, you can imagine the potential of a nature-powered electrical generator.



Illinois inventor's prototype captures electricity from lightning.

**Wave Towers Generate Power**

"We are in the final stages of a 90-day test off the coast of Galveston, Texas, and it has absolutely met our expectations," says Doug Sandberg of Independent Natural Resources, Inc. (INRI), about the company's "Seadog" pumps that produce electricity from ocean waves. The floating pumps stand 35 ft. tall and weigh 17,200 lbs.



Wave-driven Seadog pumps are designed to power electrical generators.

Seadog is a simple pump with a piston shaft attached to a floating block in a fixed position chamber. As the waves move the block up and down, the piston pumps through a cylinder. Water is drawn in through an intake valve and expelled through an exhaust valve.

INRI says the pump can also be used to generate hydroelectric power or to pump water to a reservoir for release on demand. The Seadog is also being looked at as a viable way to pump water to a desalination plant and also to power it.

Sandberg told FARM SHOW tests show they can go out two miles and effectively push water to shore, depending on pipe diameter and the size of the waves. More tests are scheduled this year in California (www.inri.us; ph 877 467-4872).

**Fuel Up With Saltwater!**

After John Kanzius, Erie, Penn., underwent chemotherapy for leukemia, the former broadcaster, who has always had an interest in science, decided to try to find a less toxic way to stop cancer. His idea? Use radio waves to zap cancer cells. Along the way, he may have come up with a revolutionary new fuel that's super abundant, and free.

Here's his idea in a nut shell. Cancer researchers already

knew that cancer cells will absorb nanoparticles of metal (less than one billionth of a meter in size) while healthy cells will not. By exposing the cells to radio waves, the cancer cells can be killed, leaving the healthy cells untouched. Cancer researchers all over the world were amazed at the Kanzius discovery, including researchers at the world renowned MD Anderson Cancer Clinic in Houston, Texas, who are continuing work on the idea along with scientists at the Pittsburgh Medical Center.

While doing the cancer research, Kanzius was zapping salt water in a test tube with radio waves and heard the sound of a spark. He lit a match over the tube and was amazed to see a high temperature flame burning on top of the water. It was later measured at 3,000°, indicating a tremendous release of energy.

Dr. Rustum Roy, a leading expert in water structure at Penn State University, calls the discovery "the most remarkable in water science in 100 years". He notes that it isn't the saltwater itself that's burning. He believes the radio waves weaken the bonds of the sodium, chloride, hydrogen and oxygen in the saltwater so that it's actually the released hydrogen that's burning.

Kanzius is working with Industrial Sales & Manufacturing in Erie, Penn., to perfect the process. He says they've so far powered a Stirling engine with saltwater exposed to radio waves. Meanwhile, Dr. Roy is working to secure research funding from the U.S. Dept. of Energy. To see a video of saltwater in flames, go to www.rustumroy.com.



FARM SHOW Senior Editor Bill Gergen hopped on board the new Agco Challenger at the Sunbelt Expo in Moultrie, Georgia.

**World's Biggest Tractor**

Senior Editor Bill Gergen recently got a close-up look at Agco's new 570 hp Challenger, which is being billed as the world's biggest production tractor. Available in either a wheeled or tracked version, the monster pulling machine weighs 63,000 lbs., with the widest and heaviest frame in the industry, and the largest articulation and biggest bar axle. The wheeled version sells for an impressive \$319,242.

**Liberty Quotes**

"Those who cast the votes decide nothing. Those who count the votes decide everything." *Joseph Stalin*

"Good government is the most dangerous government because it deprives people of the need to look after themselves." *Mahatma Mohandas Gandhi*

"We are reluctant to admit that we owe our liberties to men of a type that today we hate and fear - unruly men, disturbers of the peace, men who resent and denounce what Whitman called 'the insolence of elected persons' - in a word, free men." *Gerald W. Johnson*

"There are not enough jails, not enough policemen, not enough courts to enforce a law not supported by the people." *Hubert H. Humphrey*

"War is an ugly thing, but it's not the ugliest of things. The decayed and degraded state of moral and patriotic feeling which thinks that nothing is worth the cost of war is much worse. The person who has nothing for which he is willing to fight, nothing which is more important than his own personal safety, is a miserable creature and has not a chance of being free unless made and kept so by the exertions of better men than himself." *John Stuart Mill (Lance Cpl. Rogelio A. Ramirez, killed earlier this year in Iraq, had this tattooed on his side, according to the L.A. Times)*

**A Reader Writes**

Last issue we ran a blurb about how the discount giant Costco now sells low-cost caskets that look as good as the fancy ones you can buy at funeral homes. Reader Fritz Groszkruger, Dumont, Iowa, wrote soon after to pass along a tip on how to save even more. "My wife and I have both registered with a medical research company that takes your body when you die for human tissue research. It benefits science and costs absolutely nothing when you die. Instead of spending thousands on a funeral, our bodies will be put to good use."

The company, Anatomy Gifts Registry, was founded in 1994. You must preregister. When you die, there's no need to call a funeral home. Just call the Registry and they will make arrangements to pick up the body. Contact: www.anatomicgift.com or call 800-300-5433.

**Great Gift Idea For Christmas**

If you've got a hard-to-buy-for farmer or rancher on your Christmas gift list this year, why not do your shopping right here?

Many readers who gave FARM SHOW for Christmas last year wrote to tell us they've never given a gift which generated so much response from appreciative recipients.

If you like, you can give the "First Gift" to yourself as a one-year extension of your own FARM SHOW subscription, entitling you to give reduced rate gift subscriptions to friends, relatives, business associates, students, or others.

Use the handy order form inserted elsewhere in this issue to order your Christmas gift subscriptions or go to www.farmshow.com. You can also call us at 800 834-9665.



**Quotable Quotes**

"Give me six hours to cut down a tree and I will spend the first four sharpening the axe." *Abraham Lincoln*

"If I have seen farther than others, it is because I was standing on the shoulders of giants." *Isaac Newton*

"I am not judging by the number of times I fail, but by the number of times I succeed. And the number of times I succeed is in direct proportion to the number of times I fail and keep trying." *Tom Hopkins*

"Ignorance more frequently begets confidence than does knowledge." *Charles Darwin*

"It's hard to beat somebody when they don't give up." *Babe Ruth*

**Three Cheers For Sears**

Sears has developed a great reputation for how it treats employees called up for military duty. By law, all employers are required to hold jobs open and available, but nothing more. Usually, reserve military soldiers take a big pay cut and lose benefits as a result of being called up. But Sears has been voluntarily paying the difference in salaries and maintaining all benefits, including medical insurance and bonus programs, for all called-up reservist employees for up to 60 months. The company has received numerous awards from various military groups for its support, including a Distinguished Service Award in 2006 from the Military Officers Association of America.

I suggest we all shop at Sears, and be sure to find a manager to tell them why we are there so the company gets the positive reinforcement it well deserves. To order merchandise online, go to www.sears.com.

**A doctor and a lawyer were talking at a party.** Their conversation was constantly interrupted by people describing their ailments and asking the doctor for medical advice. After an hour of this, the exasperated doctor asked the lawyer, "What do you do to stop people from asking you for legal advice when you're out of the office?"

"I give it to them," replied the lawyer, "and then I send them a bill."

The doctor was shocked, but agreed to give it a try. The next day, still feeling slightly guilty, the doctor prepared the bills. When he went to place them in the mailbox, he found a bill from the lawyer.

**And old man was talking to a young friend.** He told him he had been married for 66 years.

"That's amazing!" his young friend said. "What's the secret to such a long, happy marriage?"

"Well," the elder man replied, "It's like this. We decided together when we got married: The man makes all the big decisions... and the woman makes all the little decisions."

"Wow!" the young man responded. "Does that really work?"

"Oh, yes," the oldster said proudly. "It's been 66 years and, so far, we haven't had one big decision!"

**Ole's wife Lena died,** so Ole calls the undertaker and says, "You've got to come and pick up my wife, Lena. She just passed away." The undertaker says, "Where do you live?" Ole says, "412 Eucalyptus Street." The undertaker says, "How do you spell that?" Ole says hesitantly, "E-U-K or C or .... aw, the heck with it. I'll just drag her over to Oak Street."