

Carmine Cifaldi
7435 Fairlinks Court
Sarasota, Florida 34243
Feb. 12, 2010

Corey S. Powell, Editor in Chief:
Discover Magazine
90 5th Ave. 11th fl.
New York, N.Y. 10011

Re: **March 2010**, (Pg 80), “20 Things You Didn’t Know About Light”

Dear Mr. Powell:

I look forward very much to receiving **Discover Magazine** every month. I have written to you several times about various subjects, but to date, have **never** been **avored/received** an acknowledgment, **nor an answer**.

I submitted an idea, (2-11-2010), to **General Electric**, of **how to preclude the recent problem (embarrassing)**, about the freeze-up of their Million Dollar Wind Generators.

I cited a similar problem I had in New Jersey, in the early **1950’s**. Basically, I used a **60 Watt** Light Bulb, in the cold weather, (which I situated in an enclosure), to cure my problem.

Your **March 2010** disclosure, showed two things of interest to me: **Item #11**, “**In the confined Space of an Easy-Bake Oven, a 100 Watt bulb may generate a temperature of 325 degrees Fahrenheit**”.

I then sent **G. E.** a follow-up, citing same on **2-12-2010**, which was meant to show **G.E.**, “**Proof of Principle**”, of my (**unsolicited**) proffered cure, of their wind-Generator’s freezing problem! Namely, an **insignificant amount of heat** can **generate astonishingly high temperatures**, in a **closed container**. This would certainly preclude any possible freeze-up, in cold, windy weather.

I suggested that they make a second cover (**over the hub of the generator**), put electrical coils adjacent to the original hub & fill the rest with insulation. Install photo-voltaic solar-cells, on the **outside** of the **outer** cover.

Connect them to the coils inside, (so the sun, whenever it impinges on the solar cells, such will generate small quantities of heat)!

Because the coils are inside the **2nd** cover and adjacent to the inner hub. **2** things will result.

1) The outer cover will receive the brunt of the wind blowing, (which would disperse whatever heat which would normally be generated on the inner hub) during its operation!

2) The small amount of heat generated by the solar cells via the sun, being in a closed container, will retain the generated heat, in a cumulative manner. Those (2) actions, **in concert**, will prevent the generator from freezing up.

Note: A feedback of electricity to the coils, from the generator itself, can also be applied to the heating coils!

Next: I believe Item #12, (in your article), [**Light has no mass**], is **erroneous!**
See next, an **excerpt** of a paper I authored, in **April 2009**

Possible Method to COUNTER Asteroid Danger(s)

The suggestion on your **April 19, 2009, 7:00 P.M. History Channel**, that perhaps **Lasers** may be used to deflect the **collision-orbit** with the **Earth!** Even though **Photons**, (the **particle/wave**), of which they are composed, purportedly, have **NO** mass. I hereby suggest that an **electron gun**, might be able to accomplish the task of **diverting the orbit of an asteroid**, far enough to miss the earth, because of the following:

ARGUMENT #1: If a **Photon** has **NO** mass, then directing the laser-beam onto the asteroid, would be much like a butterfly landing on an elephant. However, if a **trillion** butterflies land on an elephant, surely the weight of that elephant would be more than before!

According to a paper authored by **John K. Harms**, copyright **2006**, he has theorized that a **NEUTRINO** may be the opposite particle of a **PHOTON**, possibly a **PHOTON "Hole"**! It therefore concluded, that a **NEUTRINO DOES** have mass! Then therefore, the **PHOTON MUST have mass!** See **UPDATE** below!

I also **believe**, that a **Photon DOES** have mass, however **infinitesimal**, for another reason. It has been shown, that **LASERS can** do work! By traveling at, or nearly the speed of light, such **boosts** that **mini, mini, minute** weight, **hundreds**, if **NOT thousands** of times heavier, [depending on the actual speed], according to $E = MC^2$.

CONCLUSION #1: Therefore, a **Photon (light), DOES** have mass!,

NOTE: NOW HMMM... Your problem.... or My problem!

In view of the foregoing, **IF** light **does** produce work, then it must agree with my contention that light indeed **DOES** have mass!

But, your article (#12), states *“light has no mass, but it does have momentum”*. Can one of your physicists explain to me, how momentum, (without mass), can do work?

UPDATE: Discover Magazine, March 2010, Page 57, “Neutrino Spotting”, quoting from the Institute of Physics, now agrees with my position, stating: “In 1998, scientists at Super-Kamiokande, found the first evidence that neutrinos have mass”

A search for my name in Google, Yahoo, LYCOS, or numerous other search-engines about my efforts, in the scientific community, relative to various subjects, would reveal the following: my pedigree, Global Warming, Mass-Educational Concepts, Ionic Conduction, Double-Quadruple Principle, as well as several other scientific papers, I have also authored.

They also include a comprehensive paper, (step by step), as to how I actually, personally, performed, every single operation, in the manufacture of picture tubes, (*now a lost art*)!

The excerpt, (previously shown), taken from my April 23, 2009, 4-page paper, is entitled “Asteroid Deflection Possibility” subtitled “Possible Method to Counter Asteroid Danger(s), is also included therein.

Finally, you may find more information about me, than you will ever need, in numerous other search engines as revealed on the Internet, including (2) books I wrote and (2) Patents I own, (as shown directly from the Patent Office), alongwith both Patent numbers!

Respectfully submitted,
Carmine Cifaldi

(941) 351-8616

www.cifaldi.org

ccifaldi@tampabay.rr.com

Ps. How about someone, citing their own work, as proof of something else he authored ? !

Cc