



Re: Christmas Letter 2012

Bob Eisenberg <beisenbe@rush.edu>

Thu, Dec 20, 2012 at 12:55 AM

Reply-To: beisenbe@rush.edu

To: Alan Locker <bonafide38@aol.com>, Ardyth at Gmail <ardyth.eisenberg@gmail.com>, Bob Eisenberg <beisenbe@rush.edu>

Dear Alan

Good to hear from you and I hope we get together in the coming year.
Wonderful to hear of the grandchildren!

Sorry the science was incomprehensible. The basic idea is not hard. Something taught every chemist for a very long time is in fact wrong. It does not fit data and it is incompatible with physical laws known with great accuracy. These facts are not in dispute and were in fact known to leaders in the field for a long time. I however seem to be the first one to say clearly what are the implications, which are profound, and have been asked to write a series of articles about those implications.

The implications are that devices cannot be built or understood using this incorrect idea. Nearly all of our technology consists of devices and most of biology consists of devices. (A device is something that has an input and an output. The classical example is an amplifier which takes a signal of size say 2 at its input and makes it into another signal of size say 20 at its output. The shape of the signal is not changed, only its size.)

The fundamental properties of transistors depend on physical laws rather like the ones involved in the incorrect law. But transistor workers have NOT made this mistake. Transistor devices (i.e., ALL of parts in our computers, video games etc etc) are thus possible: they follow the correct theory with great accuracy under a wide variety of conditions. Computers and so on do NOT have to be built by trial and error. They can be computed by solving equations. Those equations are very accurate indeed. Trial and error is thousands or millions of times less efficient than direct computation. Our computer revolution and so is possible ONLY because transistor devices can be computed and built without trial and error.

I believe (this is the only part of what I have written that is not factual, and is not science) that correcting this error will allow a dramatic increase in our understanding of chemistry and biology. I believe the resulting technology will prove (over fifty years or so) to be as important as our semiconductor, computer, and digital technology.

Hope this helps a little!
If not, just ask and I will try again.

As ever
Bob

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On Wed, Dec 19, 2012 at 11:00 AM, <bonafide38@aol.com> wrote:

Bob,,

It's always great to hear from you and catch up on what you're doing. I must say you lead an active and stimulating life. I think I do the same, but on a very different plane. I read your scientific notes but quite honestly couldn't understand them at all - probably no surprise. The Lockers and family are all well and enjoying each other and life in general. With five grandchildren, all of whom live in the City, it keeps us busy and feeling young (or at least younger). Sorry we were unable to get out to Sally's marathon (or non-marathon) party, as it would have been good to catch up in person. Best wishes to you, Ardyth, and your family for the holidays and for a Happy and Healthy New Year,

Alan

-----Original Message-----

From: Bob Eisenberg <beisenbe@rush.edu>
To: Bob Eisenberg <beisenbe@rush.edu>
Sent: Wed, Dec 19, 2012 2:53 am
Subject: Christmas Letter 2012

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70th Birthday at Gettysburg
Bob Ardyth Ben and Chris

