

## WHAT THE READERS SAY

[All 30 established expert professors refuse to comment]

### HAVING THE COURAGE TO PRINT

Referring to the articles '*The end of electric charge and electric current as we know them*' part one and two in your January and February 2011 editions, I would like to congratulate you on your courage in publishing this un-refereed article, the conclusions of which would demand a major paradigm change.

I find it most refreshing to be able to read about a theory in an authoritative journal such as '*Electronics World*' that has the courage to present, and call 'explosive', such a model that clearly highlights major issues in the current mainstream established view.

Now that this has been presented, one wonders if there are any 'established experts' who would also have the courage to comment on this article.

**Ian Montgomery**

### EW Does a Great Service to Engineering

I write to urge you to continue publishing articles by Ivor Catt as his insights are of great importance to science and engineering. Many journals will not publish his papers for the simple reason that they upset too many apple carts. The issues raised by Catt need to be more widely known and discussed objectively and this can only be achieved by publication. *Electronics World* does a great service to science and engineering by publishing Catt's articles.

**Steve Crothers**

### Providing Insight

I met Ivor in the 1970s and he and our colleague David Walton published many articles in *Wireless World*, various other magazines and we also published a book *Digital Electronic Design*. During those years we recognized the work of JA Fleming, Oliver Heaviside and others who had recognized that electric current as we know it is a secondary effect and the more fundamental energy current was the basic primitive.

Ivor has continued with this work for the past 30 years and, as we gain more insight into the theoretical flaws of basic EM theory, we can construct more accurate models which will be better suited to the challenges of electronics in the foreseeable future.

More effective modelling and understanding of electrical energy can provide insight into creating improved designs for transmitting, consuming and processing this valuable energy source.

**Malcolm F. Davidson  
USA**

### RATIONAL DEBATE

It is alarming that Ivor's clearly argued assertions on Electric Charge and Current are not debated rationally but this can be understood in that many 'academics' would be embarrassed by a change to their established understanding.

In July 1961 I joined Ferranti computer department as a new graduate development engineer. I was assigned to Ivor for the first six months of my industrial baptism.

This was extremely valuable as Ivor would always examine concepts from their basic elements.

It was a conversation at that time which lead Ivor to develop his seminal paper on metastability, published some years later.

**John Raymond Dore**

### Failing to Notice

I first met Ivor in the early 1970s when he was working at Marconi Elloit avionics in Borehamwood. It was very shortly after this that I read Ivor's crosstalk paper, which became, together with some of his other writings, the starting point for our collaboration in fast digital systems.

It is truly fascinating that we both failed to notice that the superposition of modes of transmission in a 3-wire system, as experimentally demonstrated and documented in that paper, is in itself a demonstration that charge and current are the result of the energy current flow and not its cause. As Ivor summarizes in his articles: "One reason why it is illegal is that the electric currents in the right hand conductor are in opposite

directions for the two modes, and classical theory says there cannot be two electric currents in opposite directions along a single conductor. However, two electromagnetic waves (or light rays) can be in the same point in space, for instance when we shine a torch at another lighted torch pointing in the opposite direction, or when we send two pulses from left and right through each other down a coaxial cable. Similarly, the Even and Odd Mode TEM Waves in our photos can coexist, but not their associated electric charges and currents."

I trust that the publication of these articles will stimulate a fruitful dialogue which will lead others to identify the discrepancies between the Maxwellian electromagnetic model and observed reality.

**David Walton**

### IF YOU WOULD LIKE TO COMMENT

on this subject on any other that you have read on in *Electronics World* magazine, please write to the Editor at [Svetlana.josifovska@stjohnpatrick.com](mailto:Svetlana.josifovska@stjohnpatrick.com)

*The publisher reserves the right to edit and shorten letters due to space constraints*

**PLEASE EMAIL YOUR LETTERS TO:  
[SVETLANA.JOSIFOVSKA@STJOHNPATRICK.COM](mailto:SVETLANA.JOSIFOVSKA@STJOHNPATRICK.COM)**