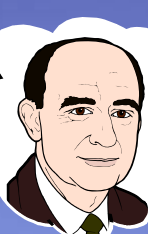


BIG TALK

PHYSICISTS



Stephen
Hawking



Enrico Fermi



Niels Bohr

MATHEMATICIANS



Blaise Pascal



Carl Gauss



Galileo

THE GREATEST MINDS IN HISTORY

THEY ALL CONTRIBUTED TO IT,
YET NONE OF THEM KNOW IT.

SO WHAT IS IT?

WHAT IS

*THE SHAPE OF
THE UNIVERSE?*



BIG TALK

I am looking for sponsorship because I am committed to giving my talk at the Edinburgh Festival

I have put together this brief gazette to tell you about a project to reveal the shape of the Universe. You may be surprised to learn that the Universe has a definite shape. You may be even more surprised to find that scientists need to be told what it is! Yet, the shape of the Universe can be explained to anyone who has GCSE level maths and physics.

Of course, no amount of argument will persuade anyone. One must decide for oneself, or an authority (not me) must decide. I am keeping my version a secret (until the appointed date), not because I don't want everyone to know, but to give others (especially non-scientists) the chance to work it out for themselves. The question is not "Do you know the shape?", the question is rather "Do you *want* to know the shape?" There will be plenty who will be the last to admit this is it, rather than the first.

If you are afraid of being caught in the middle, you are going to run a mile from this. If you have already made up your mind, you are also going to have no interest. But if you appreciate the beauty of a good idea, and if you like to hold your own view about things, then you might just be interested. After all, there is a "money back if not convinced" offer for those attending the show, see website: www.WhatIsTheShapeOfTheUniverse.co.uk for details.

So, don't make up your mind yet: let's listen to what I've got to say first.

- Martin Cross, Presenter, 2016

Pi is _ _ _ _ _

(a single, common English word:
13 letters.)

Learn The Secrets of the Universe

92 billion l.y. across vs 13.7 billion since birth. **How** is it possible?
96% of mass missing. **Where** is it?
There are three types of Galaxy? **Why**?
The Milky Way has spiral arms? **What** makes them?
It is shaped like a fried egg? **When** did it get that shape?

So: What is the **secret** shape of the **Universe** - and why is it **still** a secret?

We have known since 2006, but perhaps it is kept secret so scientists can spend £8.5 billion on 'dark matter' detectors. For years they searched for a 'God particle', only to make matters more complex! All this to chase an impossible dream of 'warp drive' whilst charging undergraduates to jump through their hoops!

- But now see how YOU can answer ALL OF these questions.
- It is all based on existing science - You already know it, but come and see how it fits together.
- Just six steps to understanding - no harder than GCSE maths - all scientifically backed.

Enjoyable, Interactive Talk
- 45 minutes - we want
your testimonial

When - Where - Why - What - How : All these questions answered when we reveal the secret shape of the Universe.

TEAM

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I am committed to delivering the "Shape of the Universe" Talk at the Edinburgh Festival. But what does it mean to say that I am committed?

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One Universe. One Shape. An 'O'-Level simplicity of explanation. (But the more you know, the better you appreciate it.)

Page 9: WHO'S THE BIG NOISE?

It's been going on a long time. There's been a huge amount of preparation. In fact, it may even take a Century to catch up. (By which time, we'll all be dead).

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TEAM

1. Martin Cross
2. Kelvin Cracknell
3. Emerald DeSouza

Thanks to the wider team: my Mum, a kindred spirit as well as kin; Clive & Paul; Matt Porter, Dominic Tyler-Lovett & Chris & Julie

Images from Nasa or self-made, except where listed.

Self-made Images generated using Bryce 3D and Corel Draw 12

Illustration this page: previous self-publications by the author.

WHAT'S THE BIG IDEA?

I am committed to delivering the “Shape of the Universe” Talk at the Edinburgh Festival. But what does it mean to say that I am committed?

Routes to Edinburgh

I work full time as Support Analyst for the Access Group. I get paid £25000 per year. It would cost about £25000 to put on an evening show to an audience of 120 for the run of the Festival. If someone were to give me £25000 to fund the show, then they could have me working for them for a year.

Why might some 3rd party wish to have me as an employee for a 12 month period? Well, one reason could be to put on a nationwide tour. My team has nothing like the expertise, resources and experience to achieve that. The arduous and repetitive nature of touring makes it a daunting prospect if we did. But because I am committed to Edinburgh, I would be fully prepared, in principle, to commit to what is certainly a routine matter for many a professional artist or musician.

Even with such an extraordinary show, promoting such an unusual, unproven, inexperienced ‘act’ with just the return of Ticket sales over the year might be less appealing than less lucrative but more imaginative alternatives.

For instance, a 3rd party might view this as being the ideal opportunity for a new media venture. To create and build an entire new YouTube Channel out of my work would have advantages to both sides. It would unquestionably create value in me to traditional media, and quite possibly maximise it by the end of the year. Although the 3rd party wouldn't have the copyright on the information, since that stays with me, it would have the copyright on the presentation, and be able to dice and slice and re-present that in ways that I as one person never could. Would I be able to produce enough content to appeal to ‘the

man/woman in the street’ to fill a YouTube Channel for a year? Oh, for much more than that! It is what I have spent all this time preparing for!

Alternative Routes

That is two quite different alternative routes which would put me at the Edinburgh Festival in circumstances which would make the work I have done, and will do in the meantime, more important than either myself or my 3rd party. But there is still a third alternative. There is, after all, only one chance to present a complete philosophy, including the (one) Shape of the (One) Universe. And that is to create a World Wide Web Entertainment, by being not so quick to give everyone the answer...

That is: set the question, but delay the answer.

Using a website to challenge the world to a race to the truth could be like the race we once faced to get to the moon. It is a challenge for no direct reward. In the January, the question would be set up, with an encrypted answer. Over each month of the next twelve, the terms of the question would be refined; narrow down the focus; set the context for answers. If the question gets answered exactly, the race is won, whoever won it. If it doesn't get answered, then on December the 31st the key is provided to the answer from 12 months ago. This decrypts an answer which has been downloadable for the whole course of the year.

I observe that it takes 13 words for me to define the shape of the Universe, but that doesn't explain it. To explain it takes me 341 words, and so that is the text message I would choose to encrypt. Neither of those is enough to truly teach it to you so that you

understand it as do I. I cant even do that in a 45 minute presentation. The reason why this is feasible, despite appearances, is because whilst audiences understand the presentation perfectly well at the time, they simply don't have enough to tell people afterward, using their own words, what was said.

It takes a certain amount of courage to be willing to follow this through to the logical conclusion, but I have been careful to prepare and it is only me that has to be right.



Image: Wikipedia

WHAT'S THE BIG DEAL?

I have an HTC One Mobile Phone. That phone comes with a built-in App called scribble. This app allows me to write or draw, embed photos, embed sound clips, and of course, type.

Last night (it is Saturday morning, as I write this) I prepared my packed lunches for the week, as is my usual routine. This involves shopping, cutting, cooking and assembling to make up to five complete packed lunches for myself for the next week. I like to create the recipe as I go. After all that is done, I am then ready to eat myself.

Last night I was very pleased with what I made – so I photographed it and typed in the main ingredients below that. I saved this as a note with the date as the name.

From 1997 to 2007, Microsoft led the world in pioneering the Windows/Office system still used by 90% of businesses. During this period I was privileged to explore the power of the desktop PC for self-publishing. I found that Word (for text), Excel (for hypertext), Corel (for images) all combined with full-colour home printing meant that my imagination could soar unfettered by limits. It was a golden period, which ended in 2007 with that year's release of Office.

I cannot easily do with my computer many of the things I can very quickly and easily do with my mobile phone. What was nicest about my experience last night was how completely without fuss it was. I used scribble to do what I wanted without registering, or in any other way telling it who I was, and without it ever telling me all about itself. In the legendary phrase, it just worked, and that is an experience which has become increasingly less common, sadly, on the PC.

When I was given the power to desktop publish, I ran with that freedom to the limits of what it was creatively possible to do, in print. I

now see the same limitless opportunity opening up to me in multimedia. When I log my creation of lunches in scribble it isn't so much a question of why would I, as why would I not? That was how it was when I began to write the philosophical articles and books I was born to do. I had to write them, but would I also illustrate and present them as fully revised finished and edited products. Why would I not?

The essays I have written under the subject of philosophy include the maths and physics essays which explain the shape of the Universe to me. My main effort over the last two decades was the writing and self-publishing of multiple editions of a book on psychology. All this work builds towards my next project: the production of a series of blog-stroke-essays on the subject of food. The blogging element is facilitated by eg scribble to the point where I do not need to seek sponsorship in order to do this. It will happen. The purpose of sponsorship is to allow others to contribute their expertise to a fascinating adventure.

When I was writing, there was no guarantee I would self-publish and so it was right for me to take all the risk to myself. I can do that again, but I don't need to. I will extend the opportunity to others, and if no-one takes it up, then I will do it on my own.

Why food? Well, my practice with food revolutionised my eating habits in my forties. It completely turned around my smoking and drinking; reduced my food bills; raised the quality of what I ate; lowered my impact on the environment; and reduced my weight. What's the big deal about food? Because the elements of taste correspond to the elements of mind. Food is an example of the practice of a new theory of psychology. You don't need to know about my theory of mind to understand how I practise that theory with food, but do understand - each enriches the other. This article is an example of how I can combine the

elements of a blog with straightforward tuition to create a new kind of educational entertainment. I know I can do this regularly with high quality because it is what I have been doing for many years for my own entertainment and erudition.

I am not a physicist, I do call myself a philosopher. Although only a physicist can say whether the shape of the Universe is right for other physicists; my work is, I believe, to build a complete, consistent overall philosophy.

Route to Sponsorship

Perhaps I should start a podcast and then approach, say, Audible for sponsorship, or follow some other tried and trusted route with more likelihood of success. But there are two problems with that. First, I am not looking for a few quid towards expenses. Neither am I looking to 'escape' my full-time job as a computer programmer. It is precisely because I live in the real world that I am so strong as a philosopher. Second, the value to the project is not from advertising, and it is not clear what it is from. There are much better, well-established ways to advertise, and advertising is a clear, measurable basis for sponsorship. You aren't interested in this because it will make you £X pounds you don't have, you are interested because you see a possibility for doing something or influencing something that otherwise might be different.

For all these reasons, the route to sponsorship is a number of steps, the first step of which is the biggest. It involves registering a possible interest, by making contact. A possible interest may develop into something more, or it may not. And that is all that can be said.

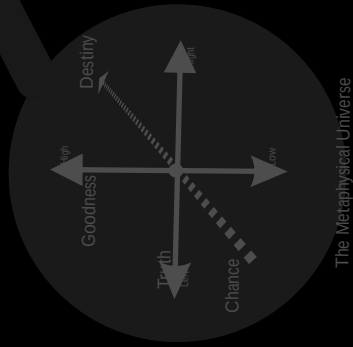
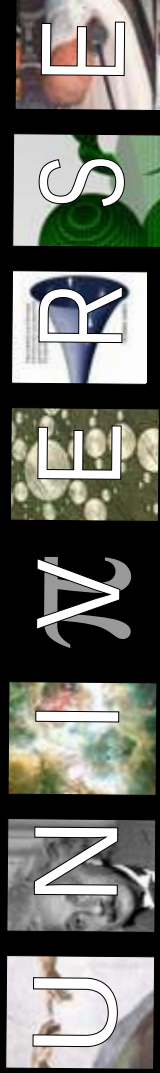


Image: eif.co.uk

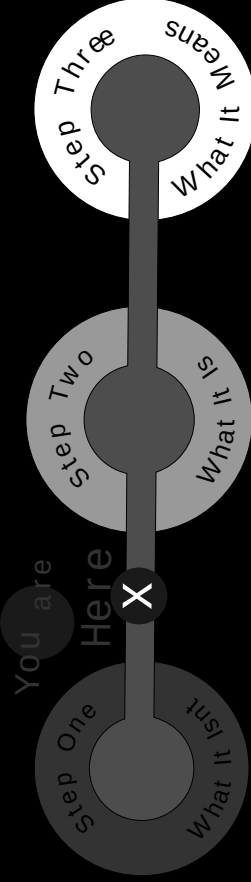
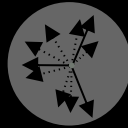
The Map is not the Territory

Announcing...

THE SHAPE OF THE UNIVERSE



www.WhatIsTheShapeOfTheUniverse.co.uk



3 Steps

45 Minutes

GCSE Level
(16 or above)

ALL WELCOME

Three steps to understand
But the first step is backwards...



WHO'S THE BIG NOISE?

A sound like rolling thunder? That is this snowball, gathering speed!

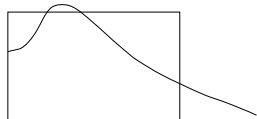


Image: <http://www.peterfuda.com/2012/12/14/video-case-study-of-the-snowball-effect/>

Any philosopher worth his salt would give his right arm to have something to tell you that you do not know. In fact, that was kind of the whole point about Socrates. Socrates became famous and successful because he embodied the idea that you do better to ask questions in philosophy than to provide answers, and he showed that, making any argument redundant.

I too have something to tell people about truth. Something totally unexpected because it is so simple, yet also, so completely unexpected. It turns out after all that truth really is stranger than fiction.

Like Socrates, I have something to show you, in the shape of the Universe. I don't tell you something you don't know; what I do do, over 45 minutes is to link together many things that you do know (and some perhaps that other people know) and show you what I believe is inarguable. I believe the maths is inarguable – even though I am saying a certain mathematician is flat wrong in what he says! I believe the physics is inarguable simply because it is the physicists themselves I am quoting. Nevertheless, I am not a physicist, and will never be. We might say that I have a gimmick. It is a neat trick, maybe, but it isn't Einstein.

The other thing a philosopher must be

able able to do is to tell you the purpose of life. Well, what if I ask you a question? Suppose we were to discover 'wormholes' of some sort? Suddenly we can go wherever we want, anywhere in the Universe - or even just wherever we want in only this, our Galaxy. Well, ask yourself what we would do for the next 4.5 billion years? Do you honestly think we could be trusted with warp drive? What if I told you that the size and shape of the Universe is just such that it splits very neatly into phases for mankind and also the other species which we must expect to be elsewhere just by chance evolution? To me, it is common sense, yet to the very best of my knowledge I am the only one, from scientist or scifi buff, who can tell you this.

Dangers

Not everyone is interested, of course. My friends and family; my colleagues at work; those whose profession depends on the status quo; it is very hard to get them interested. But those who are, are very interested. That is why Horizon regularly reviews the state of thinking in physics (see Horizon: What happened before the Big Bang). Finding the wrong audience or no audience is a significant danger; but finding the right audience, through a factually correct entertaining and unique delivery, is extremely low risk, I suggest.

Clearly, Horizon is an extremely polished and professional product, with enormous resources on tap and a uniquely advantageous method of delivery. It might seem like another danger is that I will fall foul of one of the many difficulties facing an amateur with very limited resources, facing an uncertain delivery medium to an unknown and unidentified new audience. But I have one unique

advantage that Horizon does not have, which is that I have an inexhaustible fund of astonishing information which you might not like, and might not believe, but cannot dispute.

In my decades of pursuing my lines of thought the majority of people close to me have quickly realised that they'd better not be too interested (if at all) since this is somehow 'my baby'. It is an audience that needs to be persuaded and seduced that is exactly what I am most used to, and failing at it has been a very common experience for me. No-one will be more motivated than myself not to fall into this trap if at all avoidable. Again this is much lower risk than might have been thought.

Finally there is a danger that has always concerned me, if anything more than the others as being possibly terminal, and that is the danger of over-exposure too early. Because of this, I never worried too much how long it would take or how isolated I would be in doing it my way, because those downsides had this upside: that at least I would be prepared when the time came, and it would be a slow takeoff.

It is great if a snowball starts to accelerate after it starts rolling, but it is no good to anyone if it rolls over a cliff.

For me, the snowball has been gently, satisfyingly rolling for all of the last twenty years, and has been picking up speed as more and more people understand what it is I am doing and have been doing for such a long time.. Although it will take a hundred years for the world to catch up, twenty years of that has already passed. (Enough to benefit from copyright? :-))

That tiny rumble you couldn't even hear? That was me! Better believe it chum, the snowball has been rolling all this while...

Milestones	Schools; Contacts; - This kind of involvement and engagement with company personnel is really popular and could build a unique package.	three weeks	Guideline: Daytime 80 seat for two weeks
Book venue and accomodation?		- audience asked - majority filmed	Venue Production
0. Visit Edinburgh 2017		3. Assess outcome	
- understand marketing & press, regulations	1. Begin Kickstarter campaign	- talks delivered	
- shortlist venues & accomodation	- raise £5000	- audience persuaded	
		- 1/3 Tickets sold	
	2. Deliver talks Edinburgh 2018	Costs	
1. Approach Sponsors -	- at least two out of	Ticket Price	

12 x 45 minute talks one video blog per month for one year.

1 Axiom (Law)	Explanation	Illustration	Anti-example
2 All food and drink everywhere is composed of three types of taste	Like colours: all composed of e.g. RGB	namely, cream, sweet, salt	Wikipedia
3 These three types are dimensions of taste, like dimensions of space	Dimensions subdivide into 'rooms'	e.g. carbs, veg, drinks, spices	Burger and Coke
4 Diet by eating more of what you like, not more of what you don't like	Vice-cycle vs virtue-cycle	Chemicals: fat, sugar, salt	Obesity
	' - like/not like replaced by like at the time		
	' - "bad food" replaced by value/don't value		
	' - eat to feel full replaced by eat to feel good after (and taste good at the time)		
5 Principle of 'lean food'	Basis is reward for work	Assembly, not recipe	'Fast' food
6 Idea is more difficult than relativity	Not clever – stubborn, naive, unselfish i.e. stupid!	Like Marx – 100 years to accept!	Anti-money
7 Worldwide	French, American, Asian, Italian, Greek	Map shows it, but map superceded by it	"Rooms" of music
8 Meat	Herbs & Spices replace 'rich' taste of meat	How to learn (how I started learning...)	Fruit
9 Technology	' - everyone likes meat because rich		Lemon
	' - but not personal taste – hence decadent: fruit		Salad
	' - spice and herb are how to 'tailor' taste		
	My biggest problem too!	Money and bargains are anti-taste	Soup
# Traps 1 & 2: Supermarket: Price, children & savings	' - Don't have answer		Toothpaste
	You are the sum of your choices.		
# Traps 1 & 2: Habit, hype & History	Had made room; was able to 'travel light'	Cupboards, Freezer, Multiple ingredients	Plain or spicy?
	Experience of using taste against smoking vs alcohol		
# Social	' - caffeine		Feedback
	' - diary		Fish

RESOURCES



Hyperlink: Project Plan: 3 year Project

Year 1: Private Year - purpose is to approach sponsors in confidence

Year 2: Public year - 12 months preparation for

Year 3: 12 month entertainment culminating in unencrypted file being made available worldwide.

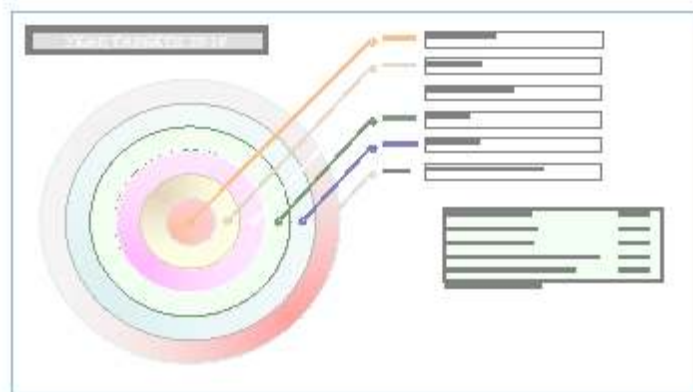
Hyperlink: Essays for download FOC

RSS feed: Monthly Video Lectures

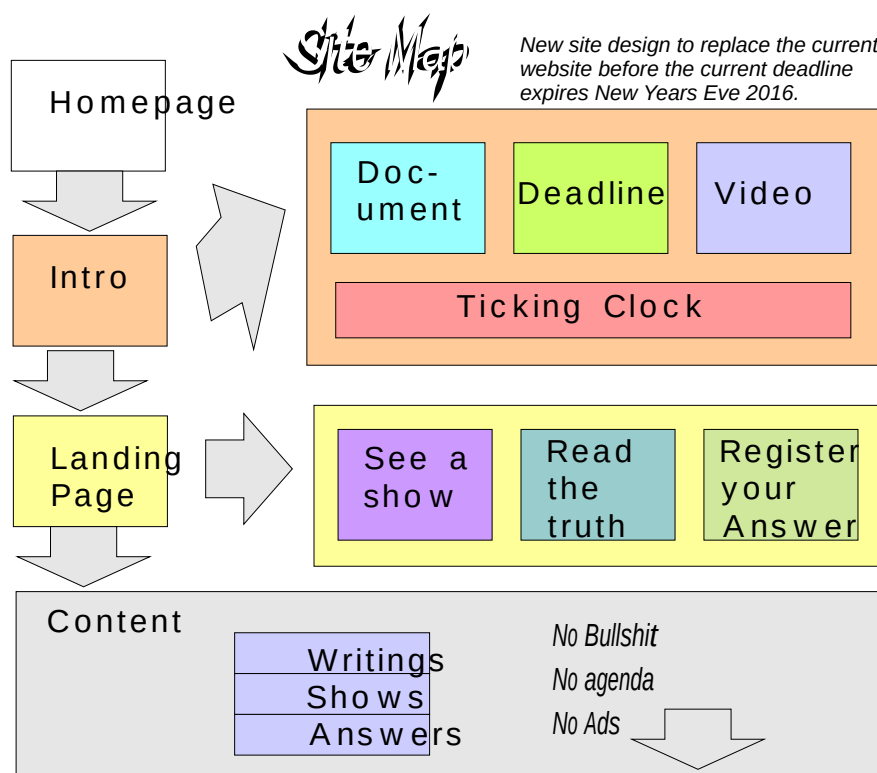
Month1:

Month2:

Month3:



www.WhatIsTheShapeOfTheUniverse.co.uk



www.ThisIsTheShapeOfTheUniverse.co.uk

(See website currently at
www.mmdl.co.uk)

BACK PAGE: FAQ

1) If you cant sell Tickets in Ipswich, how can you sell them in Edinburgh?

I *can* sell Tickets in Ipswich - just not enough! Yes, I could build word of mouth without deep pockets, but the extra organisation, decision-making and fine-tuning of an independent show make an insuperable barrier. An advantage of Edinburgh for me is that success against failure is very clearly defined.

2) In your writing and elsewhere, you are pretty open about your Anarchism. How does that fit in with this? How do you see this as furthering "your cause"?

Well, if you really want to know, the mindset of Star Trek built on a military 'Starfleet' by - presumably - a handful of 'Einsteins' is wholly inimical to the real task of getting into space which takes the least of us, not the greatest; and requires a majority effort, not the attention of an elite minority.

3) You are intending that the ideas behind this work should not be

copyrighted and that you should make no charge for the hard work of all your writing. Is that really the best idea, do you think?

Even if you do not agree that it is a fatal mistake to think of money as a friend; the roadway is littered with those who had good ideas that were better marketed by someone else. I am no good at marketing... but no-one will ever have to pay to read the core of my ideas, as I tried to explain them at the time. (Of course, that doesn't necessarily apply to future work.)