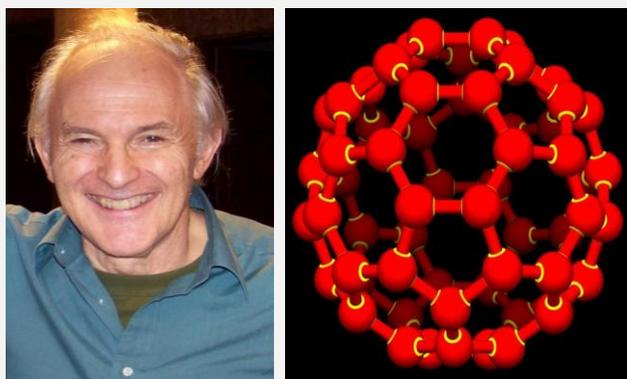


The Creative Science  
Centre – Dr Jonathan Hare  
Newsletter Summer 2016  
*Science ideas, information  
and inspiration*

## Sir Harry Kroto

1939 - 2016

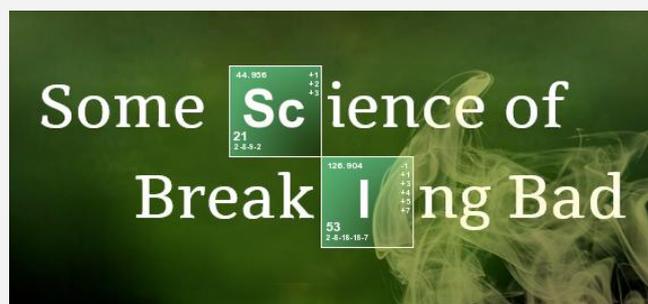


My PhD supervisor, mentor and friend Sir Harry Kroto died in May 2016. Sussex University are arranging a tribute day on 26th August and I have included a C<sub>60</sub> poster at the end of this newsletter. Sussex may be setting up a fullerene educational center, if so I will let you all know about it's activities. I will of course continue to present *C<sub>60</sub>, Buckyball* workshops and *The Carbon Revolution* talks, so do contact me if you want to learn more.

## CSC shop



Many of my workshop materials can now be brought ready-made or in kit form. These include: mobile phone detector kits, simple LED torch, shake-a-gen formers, C<sub>60</sub> / C<sub>70</sub> kits, Moon clocks, piezoelectric demos and much more :-)



## Some Science of Breaking Bad

Is Walter White's chemistry as spectacular and believable as his own transformation? Find out by booking my **Science of Breaking Bad** talk.

**Castaway Science** – if you found yourself castaway like Tom Hanks could you work out where you are? We will learn the astronomy to determine the latitude and longitude!

## OTHER POPULAR TALKS:

- \* **The Baghdad Battery**
- \* **The Carbon nano-revolution**
- \* **Lighthouses and the Fresnel lens**
- \* **Geodesic domes and the Buckyball**

FOR FULL LIST OF TALKS AND WORKSHOPS SEE:

[www.creative-science.org.uk/tandws.html](http://www.creative-science.org.uk/tandws.html)

[www.creative-science.org.uk](http://www.creative-science.org.uk)

E-mail: [j.p.hare@sussex.ac.uk](mailto:j.p.hare@sussex.ac.uk)

- \* **resources** \* **articles** \* **talks**
- \* **workshops** \* **projects** \* **all levels**

"Thanks you so much for a truly stunning talk today. Every feedback form states how **inspirational you were ... brilliant storytelling, great engagement and rapport with the audience - I couldn't ask for more!**"

Anna, Institute of Education 2016

## Here's what people say about my work .....

"Hare is a brilliant communicator: The star of BBC TV's "Rough Science"; his uniquely imaginative website has hands-on demonstrations, talks and workshops which inspire enthusiasm for science in children worldwide"

Sir Harry Kroto (Nobel Prize 1996)

"Absolutely fantastic! Our kids were buzzing all the way back to Newbiggin. As I mentioned it's more than just Science, it's about role models and aspirations and this visit provided all three and more."

Rob, Newbiggin Middle School, Science  
Christmas Lectures, Durham

"I had to write to express my appreciation of your commitment to bring Nobel Prize winning science to children's education ... my little son Tommy, 5 years old, came home thrilled and truly inspired by the workshop and started making his own versions of the C60 molecule."

Vanessa, NAGC children

"I always try to tell them Chemistry is fun and you managed to convince quite a few – so thank you. Your enthusiasm is great and you work well with the [A-level] students – so please continue your great work promoting science."

Cheryl, Esher College

"Thank you very much for your outstanding contribution to last week's Science in Action programme for GCSE students. ... I hope you could see for yourself that you had an attentive and appreciative audience – quite an achievement when you consider that there were eight hundred 14-16 year olds ... "

Radka, Training Partnership, Institute for  
Education

"It has been an ENORMOUS pleasure to accompany you around Sussex [a month of Brighton Science Festival workshops], many inspiring ideas and deep truths have emerged, so naturally as a result I'm more dazed and bedazzled by the world than I ever was. So it goes. I hope you enjoyed it. I know that 1000 kids did ... "

Richard Robinson, Brighton Science Festival

"It was very inspiring - I think in schools it can be easy to lose that sense of wonder and achievement that can be gained from making things. I am sure you've given many youngsters the encouragement to start tinkering a bit more. The talk was nicely balanced by having a good bit of physics too!"

Ally, IOP, Cambridge University

"Yes, I am most relieved that I can get into the [CSC] web site. And to say that your work is "useful" is quite an under-statement."

Jim, school science technician

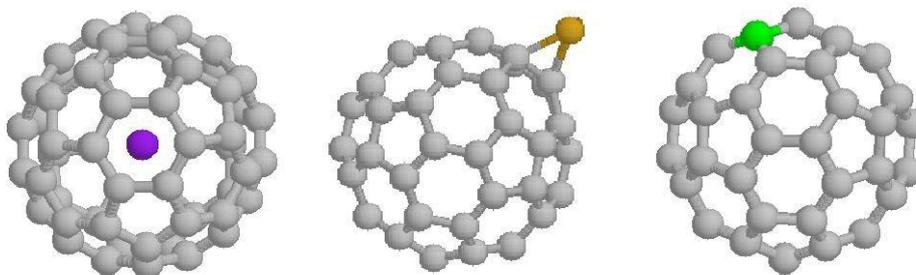
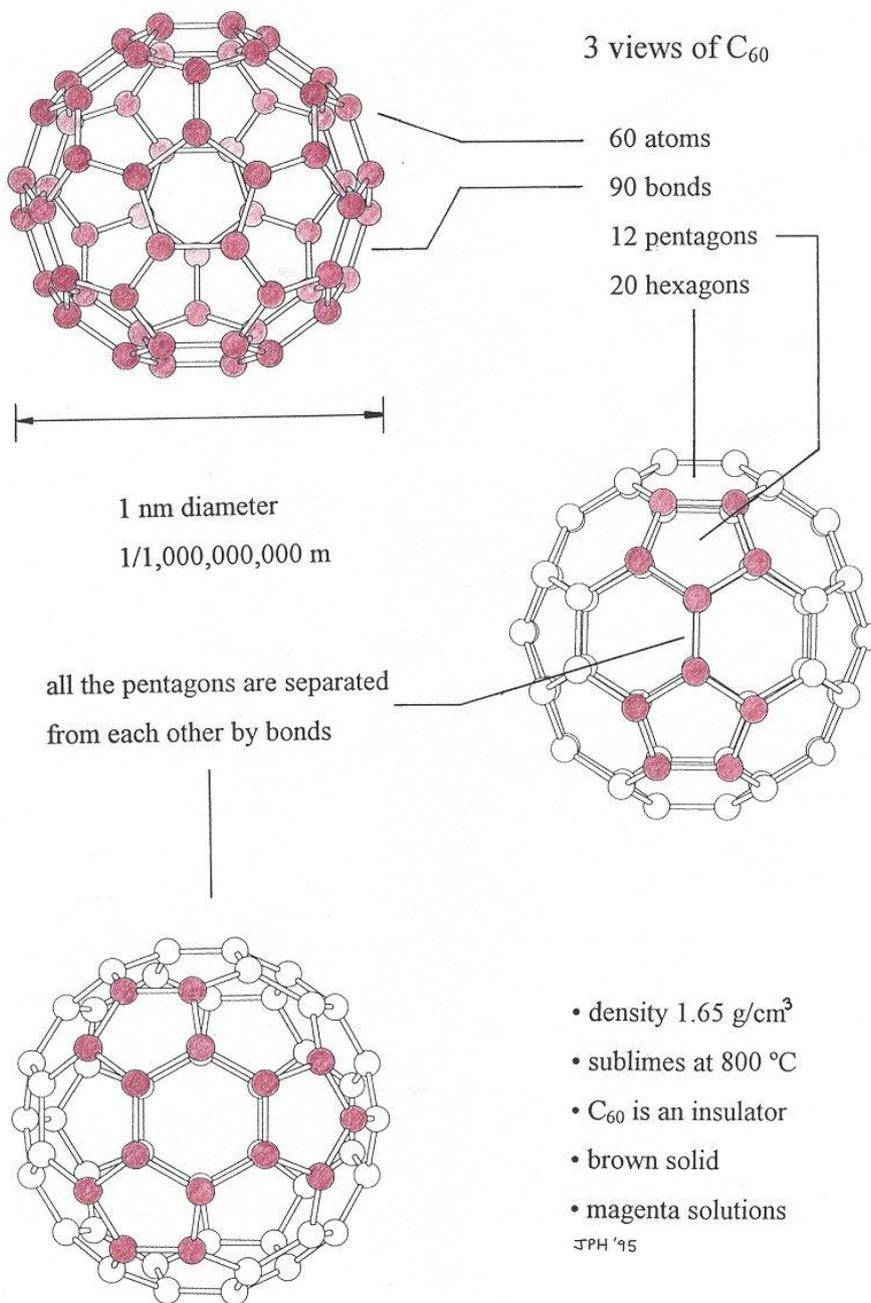
"Thank you very much for the Chemistry in the movies lecture [*Hollywood Science* and *Some Science of Breaking Bad* talks]. I know it went down well because I tried to stop a discussion on the amount of viable oxygen in a car tyre for a good 10 minutes before moving on to inter-molecular bonding! Anyway truly appreciated, thanks!"

John Luton, Varndean College

It has been a pleasure to be able to hear you talk about science .. it was fantastic! .. I would love to go to another lecture of yours, or any other science activity around London!

Darren, Action High School

# FULLERENE FACTS AND FIGURES



Three examples of fullerene chemistry: (left) endohedral atoms trapped inside the cage e.g.  $C_{60}@La$ , (middle) reactions on to the cage e.g.  $C_{60}O$ , and (right) in-cage hybrid fullerenes e.g.  $C_{59}N$ .