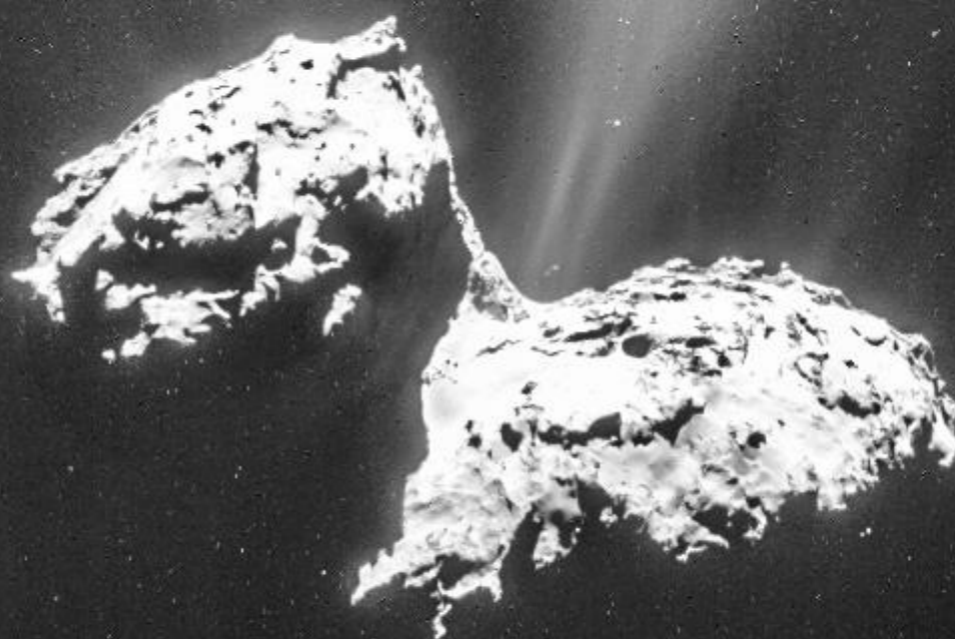
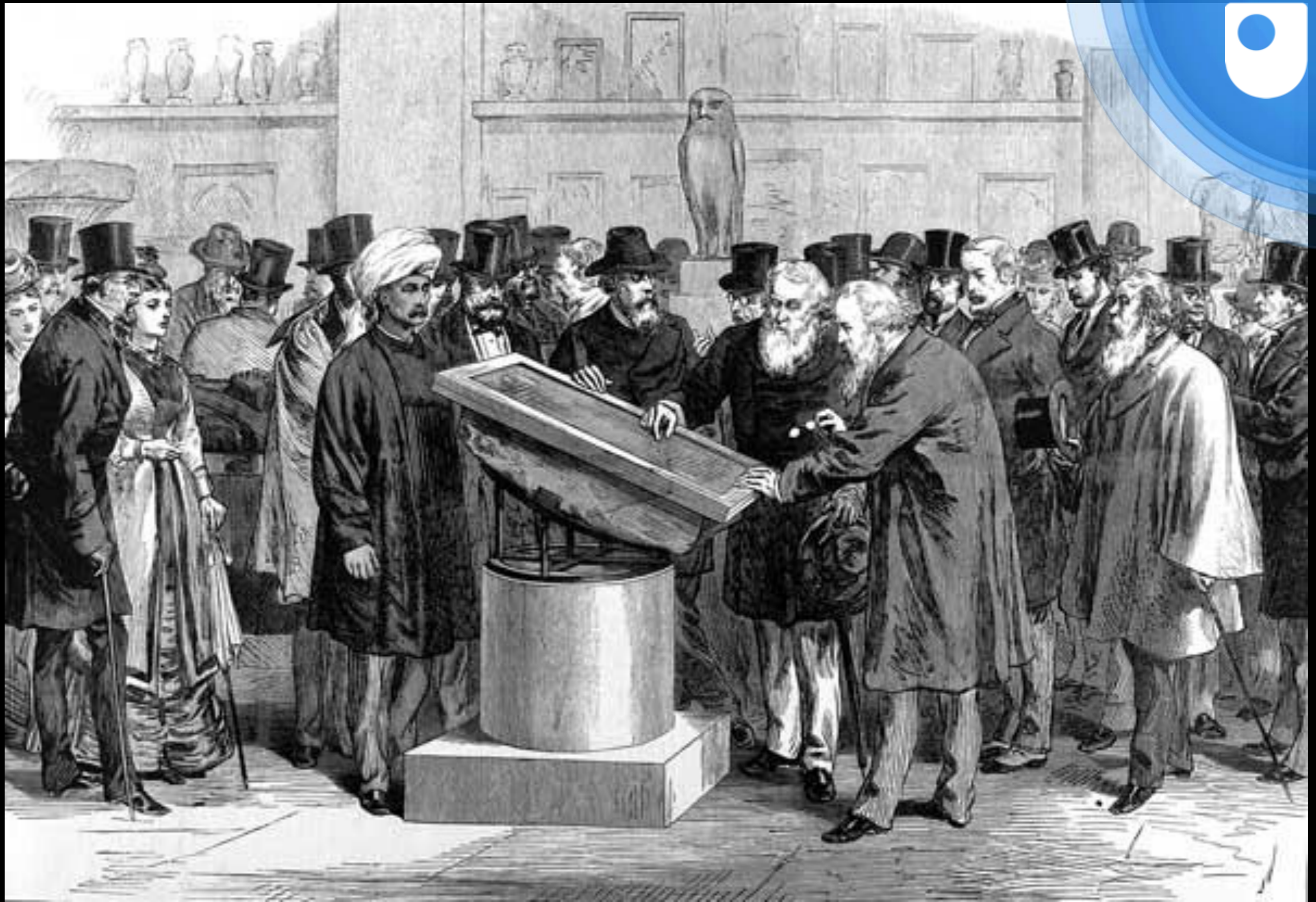


# ***Rosetta:*** **unlocking secrets from ancient Egypt to a comet**

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Professor Ian Wright





Experts inspecting the Rosetta Stone during the Second International Congress of Orientalists, 1874



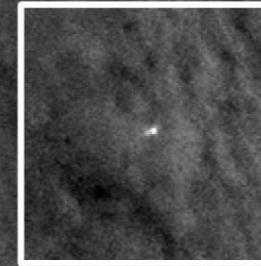
Credit: <http://www.blackmorevale.co.uk>



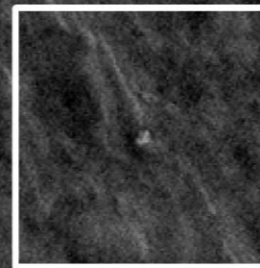
*All Rights Reserved Beagle 2*



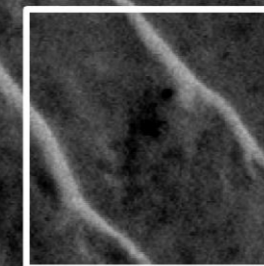
Beagle2



Parachute?

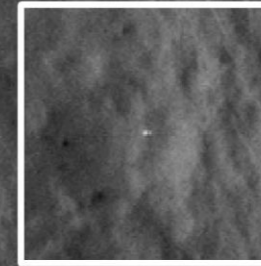


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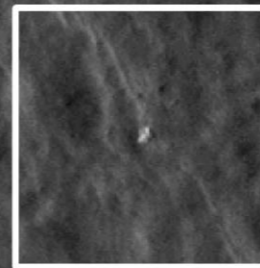




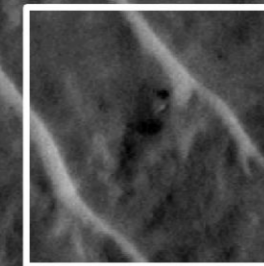
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Parachute?

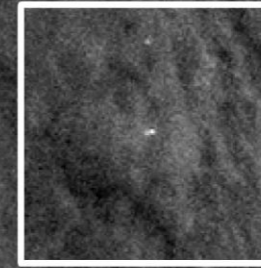


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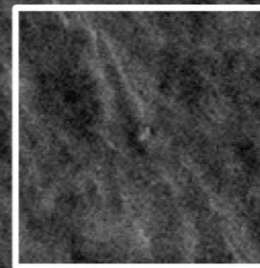




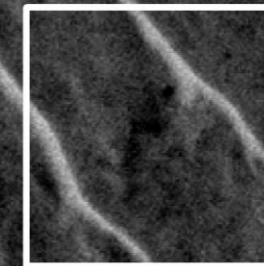
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Parachute?



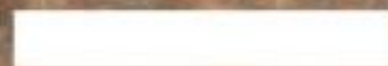
Rear Cover



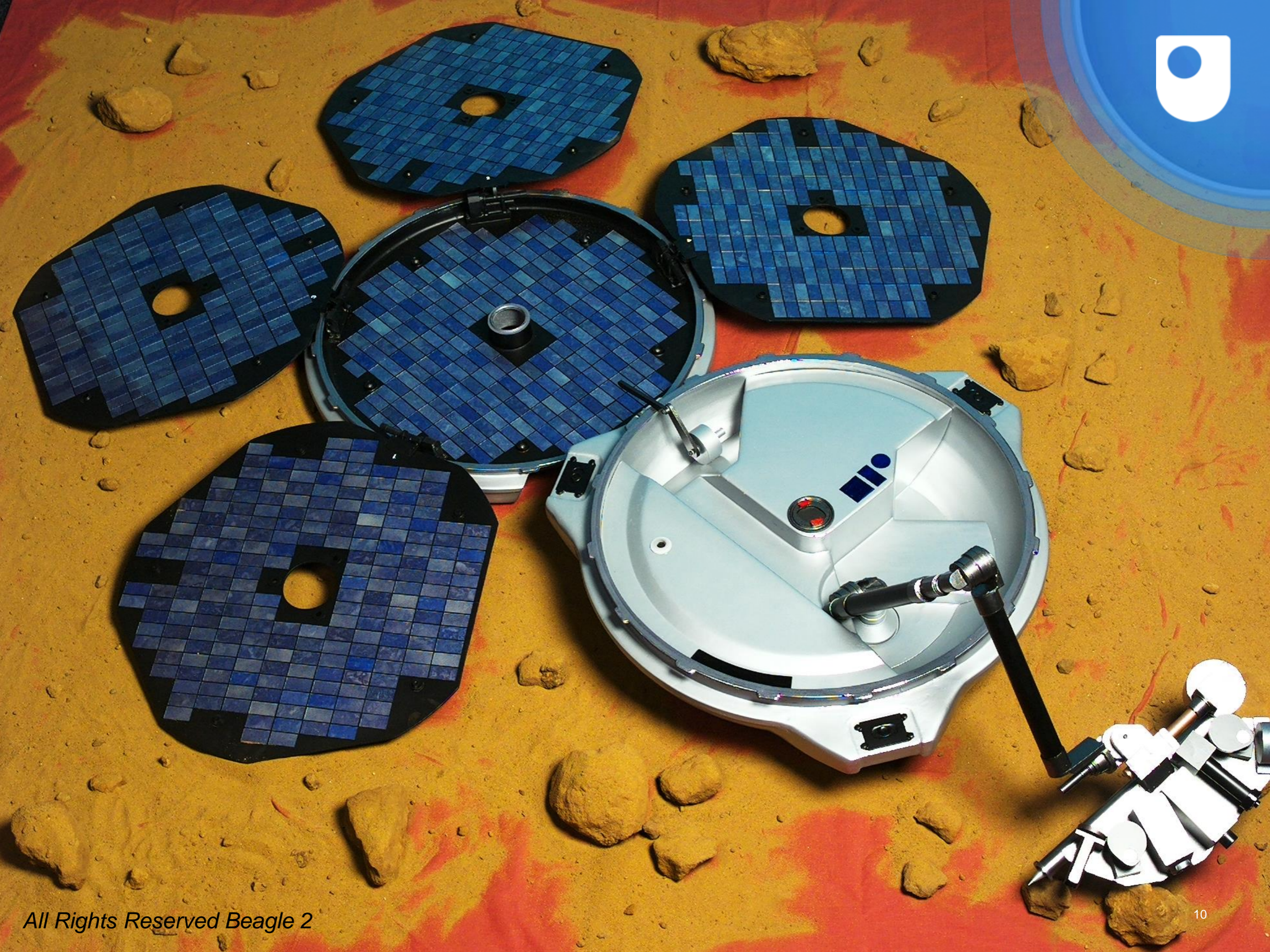


**Beagle2**

**HiRISE/NASA/Leicester**



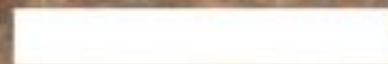
**10 m**





**Beagle2**

**HiRISE/NASA/Leicester**



**10 m**

# ROSETTA

Comet Nucleus Sample Return



Report of the  
Science Definition Team



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## Past lectures



### Beagle 2 and Beyond

Professor Colin Pillinger FRS

Museum of London

Wednesday 8 December 2004

One year on from the launch of Beagle 2, former Gresham Professor Colin Pillinger talks about the developments that have taken place.

Physics, Science - other, Science



### Where will it all end?

Professor Colin Pillinger FRS

Friday 4 February 2000

Our sun will eventually become a red giant star. Primitive meteorites contain grains which tell us about the products of nucleosynthesis...

Astronomy, Science



### Millennium Special: The First Christmas

Professor Colin Pillinger FRS

Friday 3 December 1999

Professor Pillinger is joined by guest speaker, Dr David Hughes from the University of Sheffield, an expert on the Star...

Astronomy, Science



### Tunguska

Professor Colin Pillinger FRS

Friday 5 November 1999

A lecture on the massive explosion caused by a meteor or comet in northern Russia in 1908. Had the event been 6 hours and 45...

Astronomy, Science

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Professor Colin Pillinger FRS

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**HAIRY STARS**

A Lecture by

**PROFESSOR COLIN PILLINGER BSc PhD DSc FRS**  
Gresham Professor of Astronomy

5 December 1997



## Hairy Stars

Hung be the heavens with black, yield day to night!  
Comets, importing change of times and states,  
Brandish your crystal tresses in the sky,  
And with them scourge the bad revolting stars ...

So speaks the Duke of Bedford, Regent of England and France, in the opening lines of Act I, Scene I of Shakespeare's Henry VI, part I.



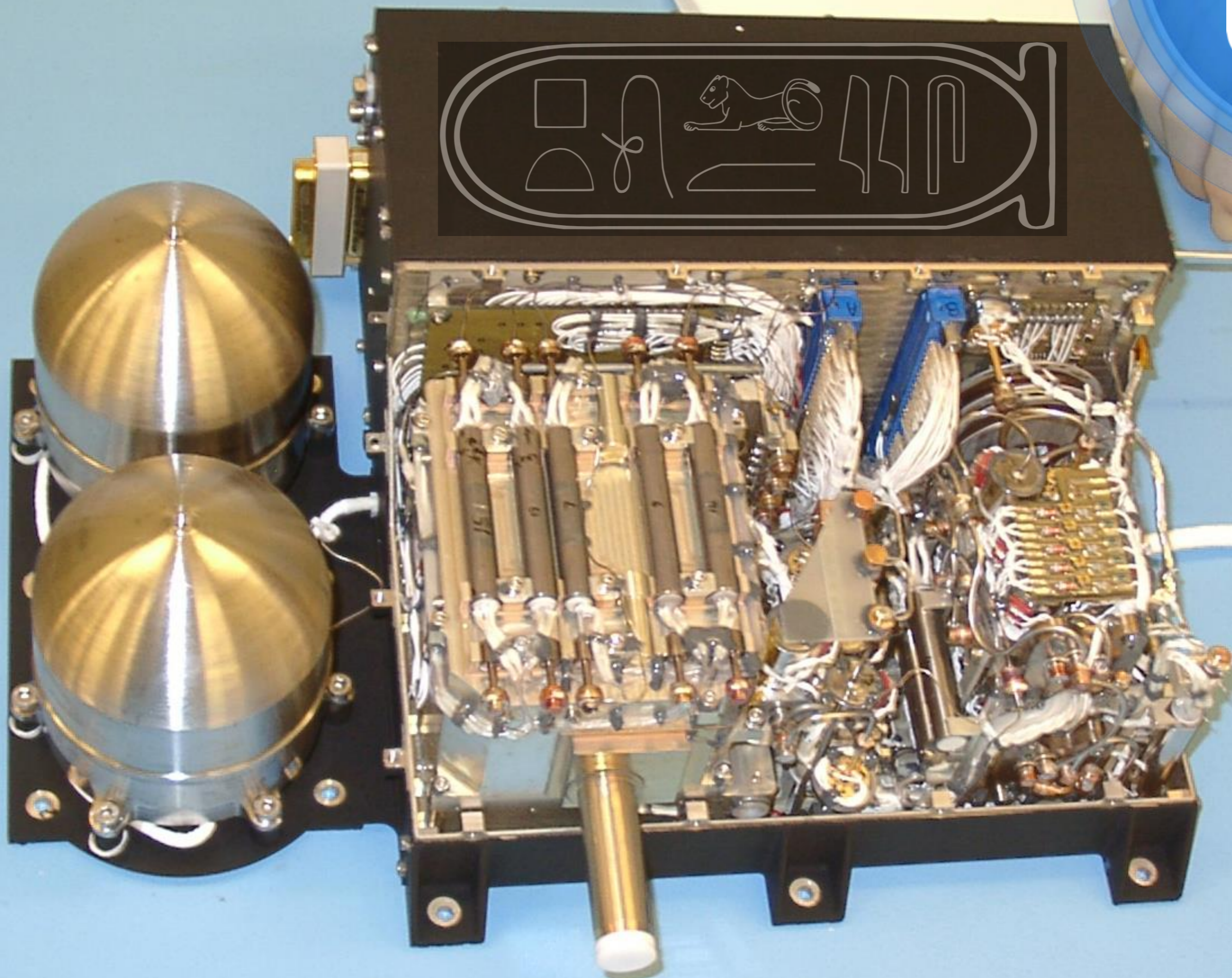
In the last year or so we have been fortunate to have had visits from one good and one spectacular comet: Hyutake and Hale-Bopp respectively. The last time the latter was with us the Egyptians were a power in the ancient World. It is therefore prophetic that a European Space Agency (ESA) space mission now in the making was sometime ago given the name Rosetta after the stone which led to the deciphering of hieroglyphics. This project intends to establish in detail the nature of processes which make comets such spectacular manifestations, and discover whether these bodies are primitive matter left over from the formation of the solar system. Stones are going to play a part in the Rosetta mission too. The



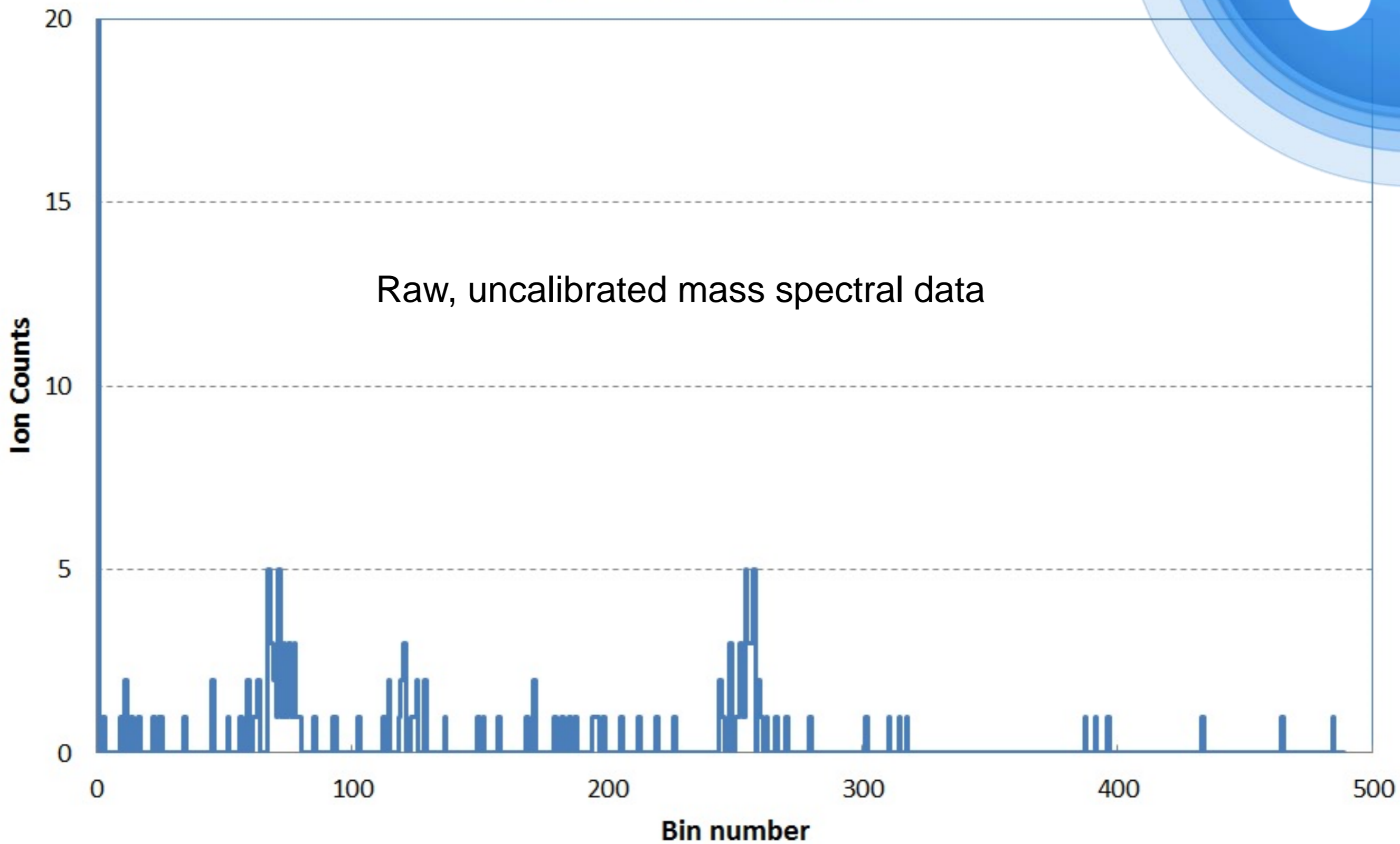
Funnily enough two men who played important roles in the founding of meteoritics as a science Sir William Hamilton (husband of Lady Hamilton) and Edward Daniel Clarke, first Mineralogy professor at the University of Cambridge, were witnesses to the Rosetta Stone being handed over to the British by the defeated French Army in streets of Alexandria. Moreover, it was a British physician, Thomas Young, turned physicist, who provided the guiding light to the translation of the text. Young's name is forever associated with his Modulus the parameter measured by stretching materials; to commemorate his involvement with the Rosetta Stone, Modulus is used as the name of the British led experiment designed to understand the origin and evolution of comets.



Modulus, *Methods of determining and understanding light elements from unequivocal stable isotope compositions* is a joint venture involving the Planetary Sciences Research Institute at the Open University and the Rutherford Appleton Laboratory's Space Science Department.



## Part 2 - WGA7 combined



**Professor Colin Trevor Pillinger 09/05/1943 – 07/05/2014**





"Why aren't comets ever discovered by people named Smith or Jones?"