

From an Email to a Project

From: ph.hod [mailto:ph.hod@imperial.ac.uk]

Sent: Freitag, 15. April 2011 13:55

To: ph-staff-dl

Subject: FW: New ERC Plus scheme - summary

Please find attached a summary of the new ERC Plus scheme being launched in July this year.

It will provide grants of up to 15Meuros over 6 years for groups of PIs each of ERC fellowship calibre.

Jo

The Key Question: How can I build a project that will stand out?

From an Email to a Project

Bold Science: Bring Quantum Physics to the Biological Sciences

Optics



van Geldew Eddidek



1676 Bacteria

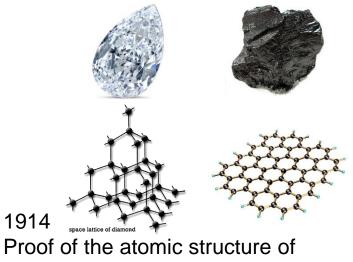
Hooke:

"by the help of microscopes, there is nothing so small, as to escape our inquiry"

From an Email to a Project

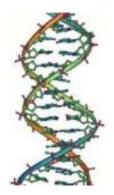
Bold Science: Bring Quantum Physics to the Biological Sciences

Kenaryadr Restat lovernaphy



crystals by imaging

1962 DNA



Physics Watson:

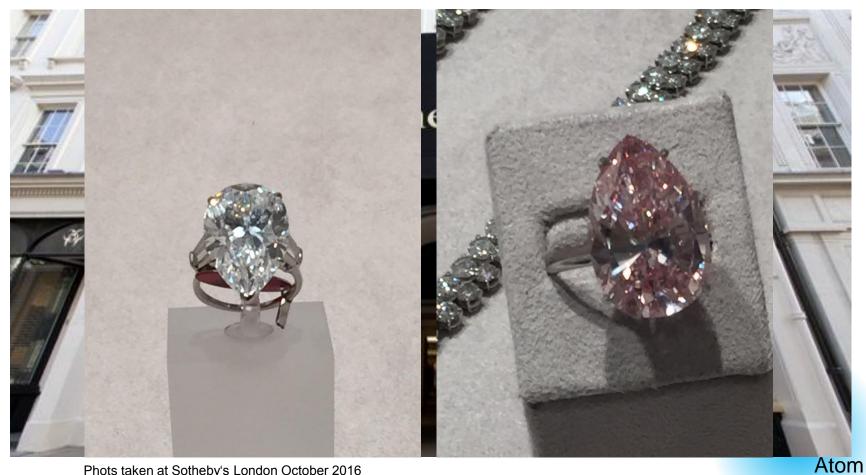
Biochemistry Crick:

Franklin: Wilkinson:

X-ray crystallography

From an Email to a Project

Bold Science: Bring Quantum Physics to the Biological Sciences



Phots taken at Sotheby's London October 2016

Crystals are like people, its only the defects that make them interesting F. Franck

From an Email to a Project

Vision for Institution:



Create Center for Quantum Biosciences

- Bring together researchers from physics, chemistry, biology & medicine
- Create Masters degree in the new field
- Use ERC as leverage to obtain federal funds for new research building

From an Email to a Project

Vision for Institution & Institutional Commitment:



Create Center for Quantum Biosciences

- Bring together researchers from physics, chemistry, biology & medicine
- Create Masters degree in the new field
- Use ERC as leverage to obtain federal funds for new research building
- Contribute share of building cost
- Establish Professorship at intersection of Biology/Physics/Chemistry

From an Email to a Project

Create Team:



Fedor JelezkoInstitute of
Quantum Optics



Martin Plenio
Institute of
Theoretical Physics



Tanja WeilInstitute of
Organic Chemistry III

all @ Ulm

From an Email to a Project

What it took to get it:

~ 4 - 6 weeks writing time

One lead writer so that it all sounds like singing from a single hymn sheet.

~ 2 weeks preparation for interview

Find someone that videos your talk over and over again until it is perfect.

Have an educated non-expert train with you to make sure that the entire committee gets the excitement

 Be at workshop in a game reserve so that download of result letter would take nerve racking 45 minutes

