

The Physical World (CASP)

The extraordinary physics of everyday things:

Bicycles, rainbows, telephones, lightbulbs, microwaves.....How do these things work? How were they invented?

The ordinary physics of amazing discoveries:

Supernovae, pulsars, black holes, tunnelling, entanglement.....Can these ideas be explained in simple terms?

Mathematics: the language of science

If you want to be able to communicate with scientists, it is vital to know how they communicate with each other. Appropriate notation can simplify many seemingly impossibly knotty problems.

Classical physics: Newton's insight, obsessions and errors

Sir Isaac Newton devoted a huge amount of time to discovering how to turn lead into gold, and how best to catch and execute forgers, but this is not what he is remembered for.

Serendipity:

How come Einstein started publishing just when classical physics was falling apart? How did Percy Spencer's bar of chocolate come to redesign kitchens?