

CERN Teacher Programmes Inspiring the next generation of scientists

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Objective of Teacher Programmes To bring modern research closer to schools

OLD



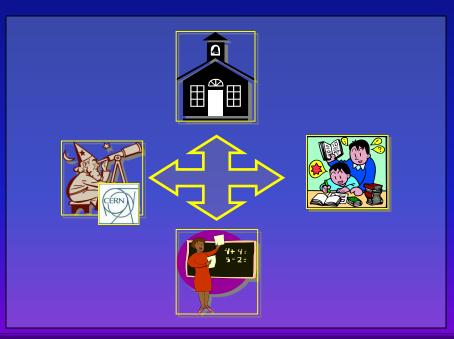




Research

University

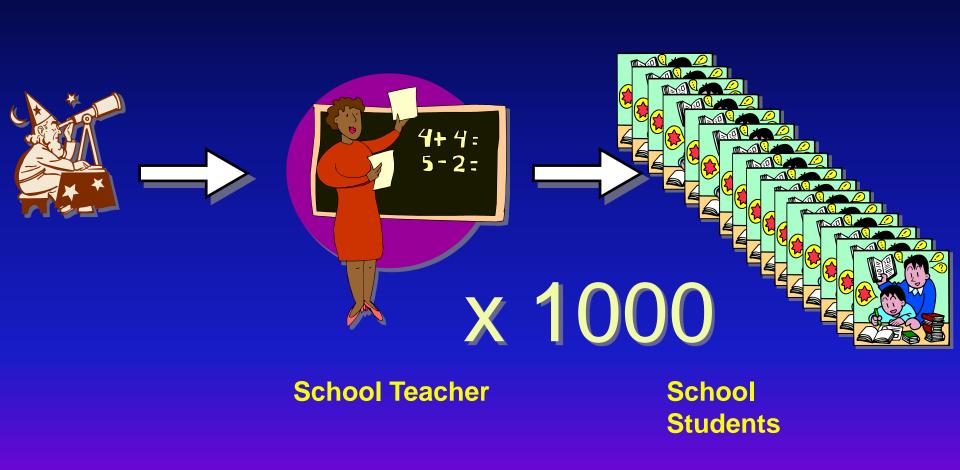
School Teacher Students



NEW



Looking for multiplicative factors





What are we trying to achieve with the help of physics teachers ?

1: RAISE AND MAINTAIN THE INTEREST OF STUDENTS IN MODERN SCIENCE

Motivate them to continue scientific education at school Help them to better understand the physical world

Improve scientific literacy

2: INSTIL A FEELING OF MYSTERY AND DISCOVERY POTENTIAL

Motivate students to take up physics at universities

Prepare the future generation of physicists

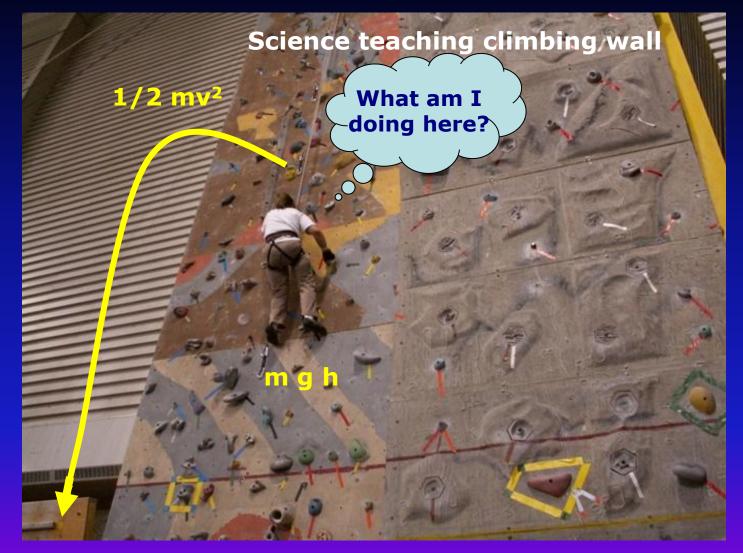
SCIENCE IS ALIVE !



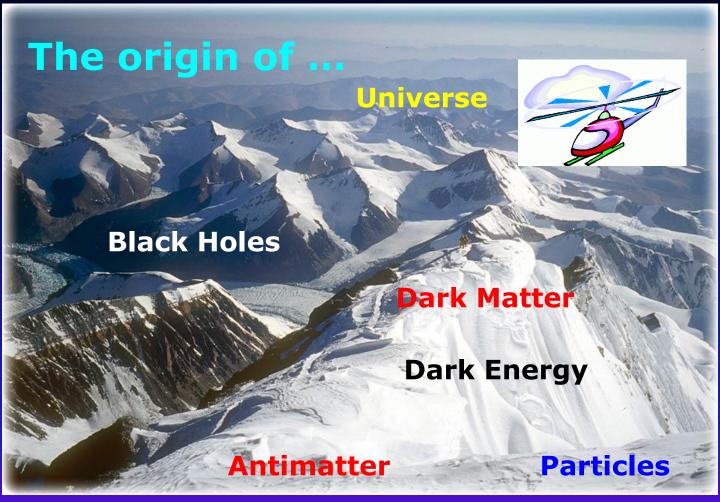
How researchers view science



How school students view science



Take students on a sight-seeing tour ...



Link modern physics to school curriculum

CERN November 2010 **CERN Teacher Programmes**



Residential Teacher Programmes

Basic content

- Lectures
 - Introductions to CERN, Particle Physics, Cosmology, the LHC Experiments, Particle Accelerators, Medical Applications of Particle Physics, and the GRID
- Visits to experimental facilities
- Hands-on activities
- Working group activities
- Opportunities to meet working research physicists in a variety of informal settings.

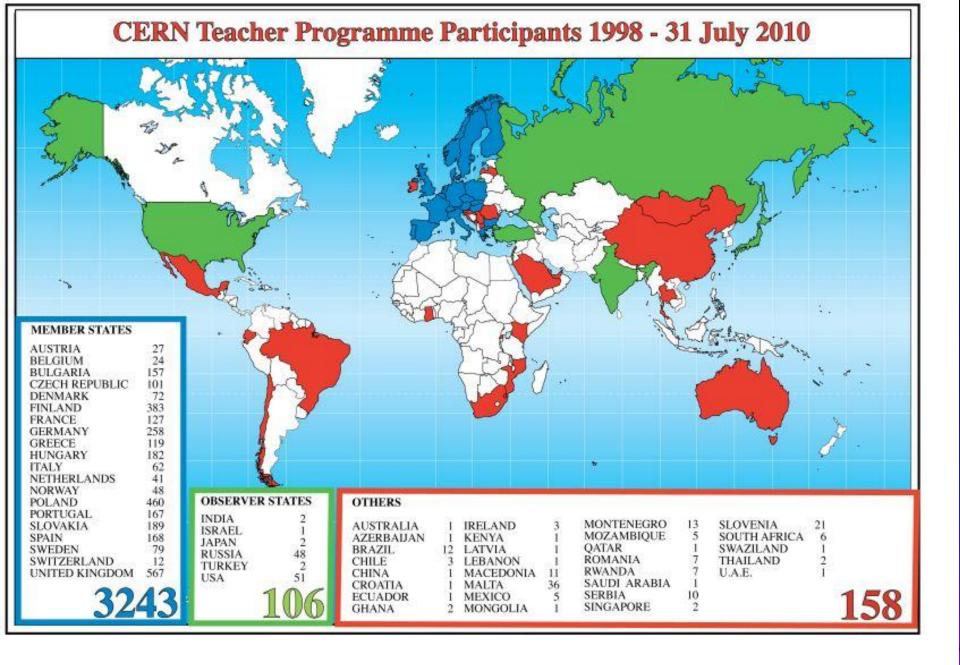
All lectures are web archived and made publicly available



Outcome

- Newly inspired, motivated and confident teachers
- Inspire and motivate students
- Communicate with their colleagues
- Communicate with the general public
- Act as ambassadors for science, physics, particle physics, CERN

Excellent examples among the many teachers who have attended our programmes





Arthur C. Clarke Author of 2001 : A Space Odyssey

- "When a distinguished but elderly scientist states that something is possible, he is almost certainly right. When he states that something is impossible, he is very probably wrong."
- "The only way of discovering the limits of the possible is to venture a little way past them into the impossible."
- "Any sufficiently advanced technology is indistinguishable from magic."

Our goal, with the help of teachers, is to bring a little of the magic of CERN into the classroom