

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

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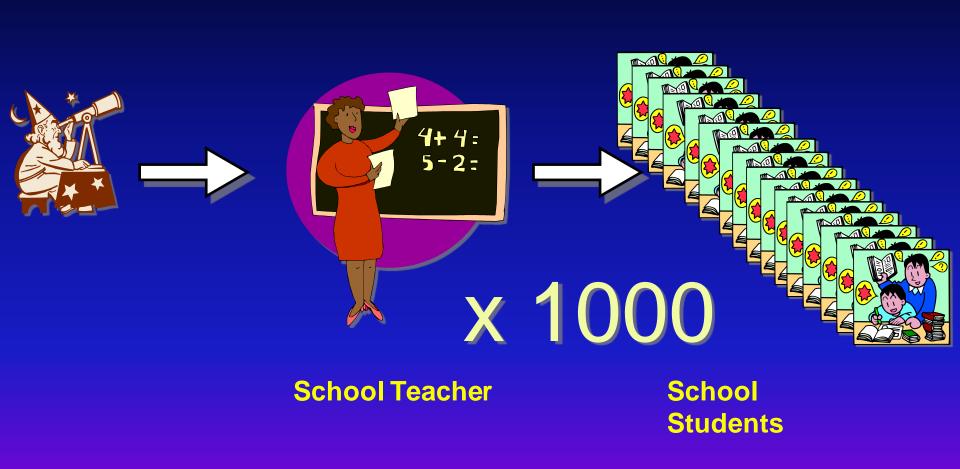
NEW

CERN November 2011

CERN Teacher Programmes



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

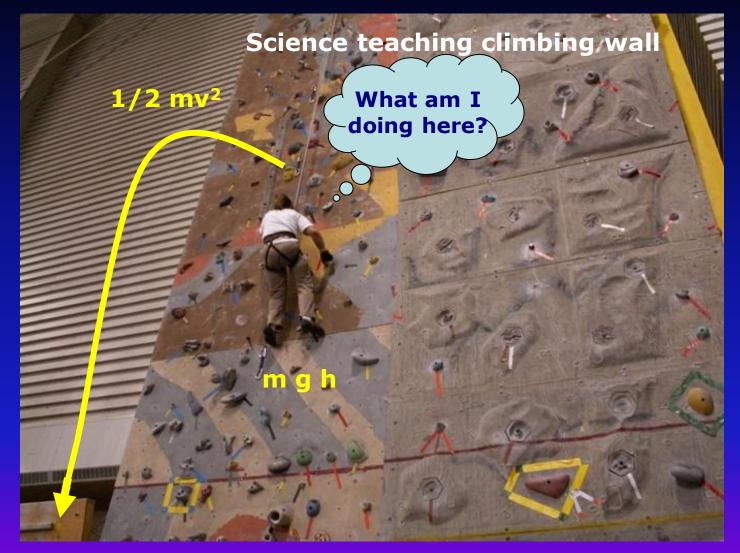
SCIENCE IS ALIVE !



How researchers view science



How school students view science



Take students on a sight-seeing tour ...



Link modern physics to school curriculum

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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.

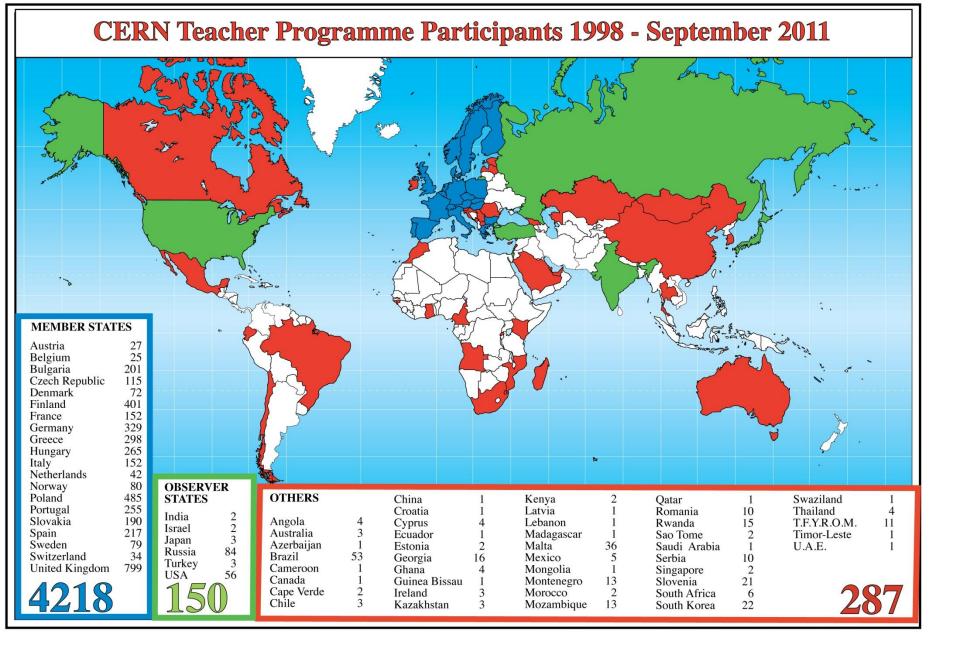
All lectures are web archived and made publicly available



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