

Working Group Report: International High School Teacher and Student Programmes

9th IPPOG meeting (Paris)

Define our Goals:

- sharing ideas about high school student and teacher programmes
- develop the National and International Teacher Programmes at CERN

Sharing ideas

- Rossana informed us about the outreach programme of Frascati National Laboratories (LNF), emphasising on high school student and teacher programmes
- we shared our experience about hands-on activities in Physics classes in high-school
- we discussed possibilities of visiting laboratories to inspire students
- we briefly discussed national and international teacher programmes

LNF activities

- courses for high school students
- 2000 - ... (total participants: 2300 students)
- INternational School on modern PhYsics and REsearch (INSPYRE) - one week long, lessons on subjects of modern physics and experiments session in work groups, [LINK](#)
- summer camp
- winter school
- teacher programmes (200 teachers / year)

S'Cool LAB news



Welcome to S'Cool LAB

S'Cool LAB is a new hands-on teaching facility for modern physics at **CERN**, the European Organization for Nuclear Research.

Established by a convention in 1954, the mission of **CERN** has four strands:



- **Collaborating** - Bringing nations together through science
- **Education** - Training the scientists of tomorrow
- **Research** - Seeking and finding answers to questions about the universe
- **New Technologies** - Advancing the frontiers of technology

LATEST NEWS

FIRST TRY-OUT WITH STUDENTS

[Julia Woithe](#) on Wed, 04/02/2015 - 13:24



On Wednesday 04/02/15 30 high school students from Norway (Elvebakken VGS) visited CERN and had the chance to be S'Cool LAB guinea pigs. They performed experiments with X-Rays, Electron

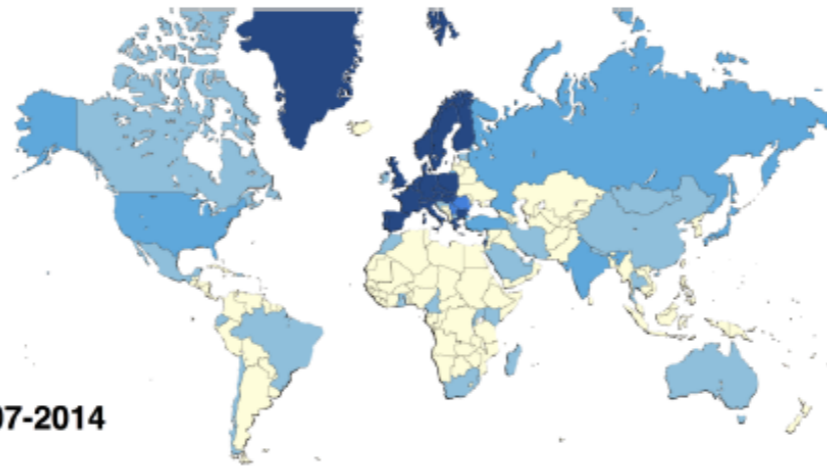
Development of Teacher Programmes at CERN

NTP

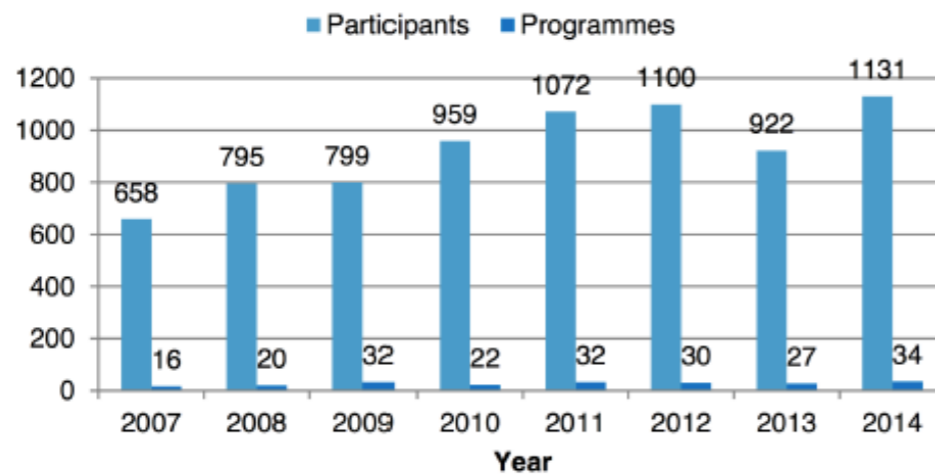
National Language Teachers Programmes

Out of the HST programme and several initiatives, CERN developed national language teacher programmes in a condensed one-week format.

Lectures, discussions, workshops and visits fill out the complete week.



NTP Participants and Programmes 2007-2014



HST

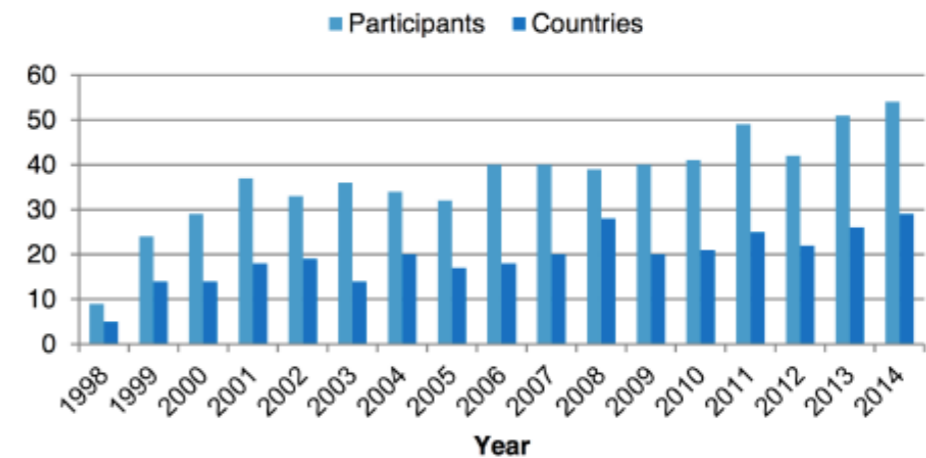
High School Teachers Programme

<http://cern.ch/hst>

HST was firstly run in 1998 and started with 9 participants from 5 countries. Up to now, 630 teachers from 62 countries participated.

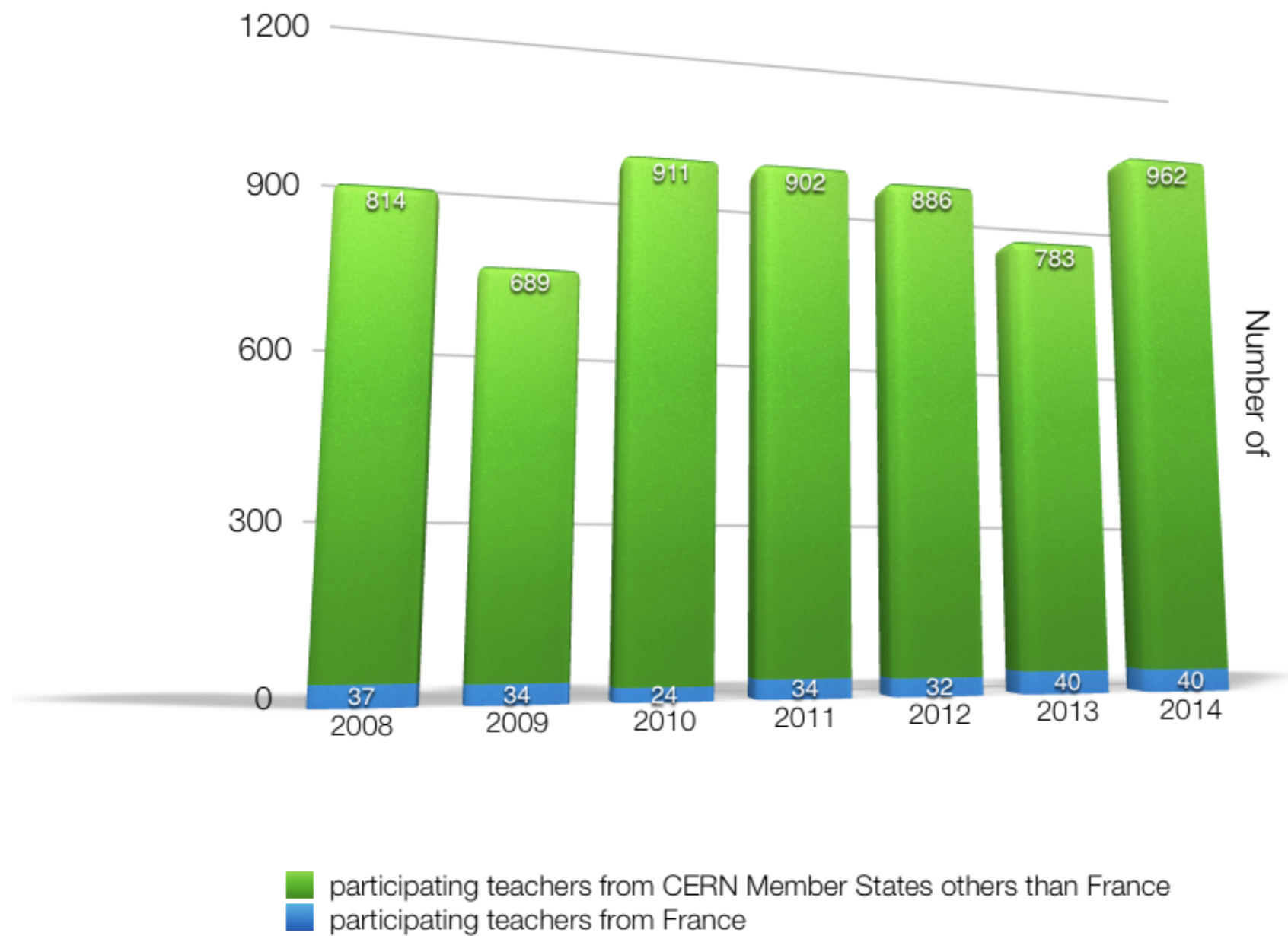
Teachers are fully funded by the programme, either directly from CERN or from cooperation partners.

HST Participants and Countries 1998-2014



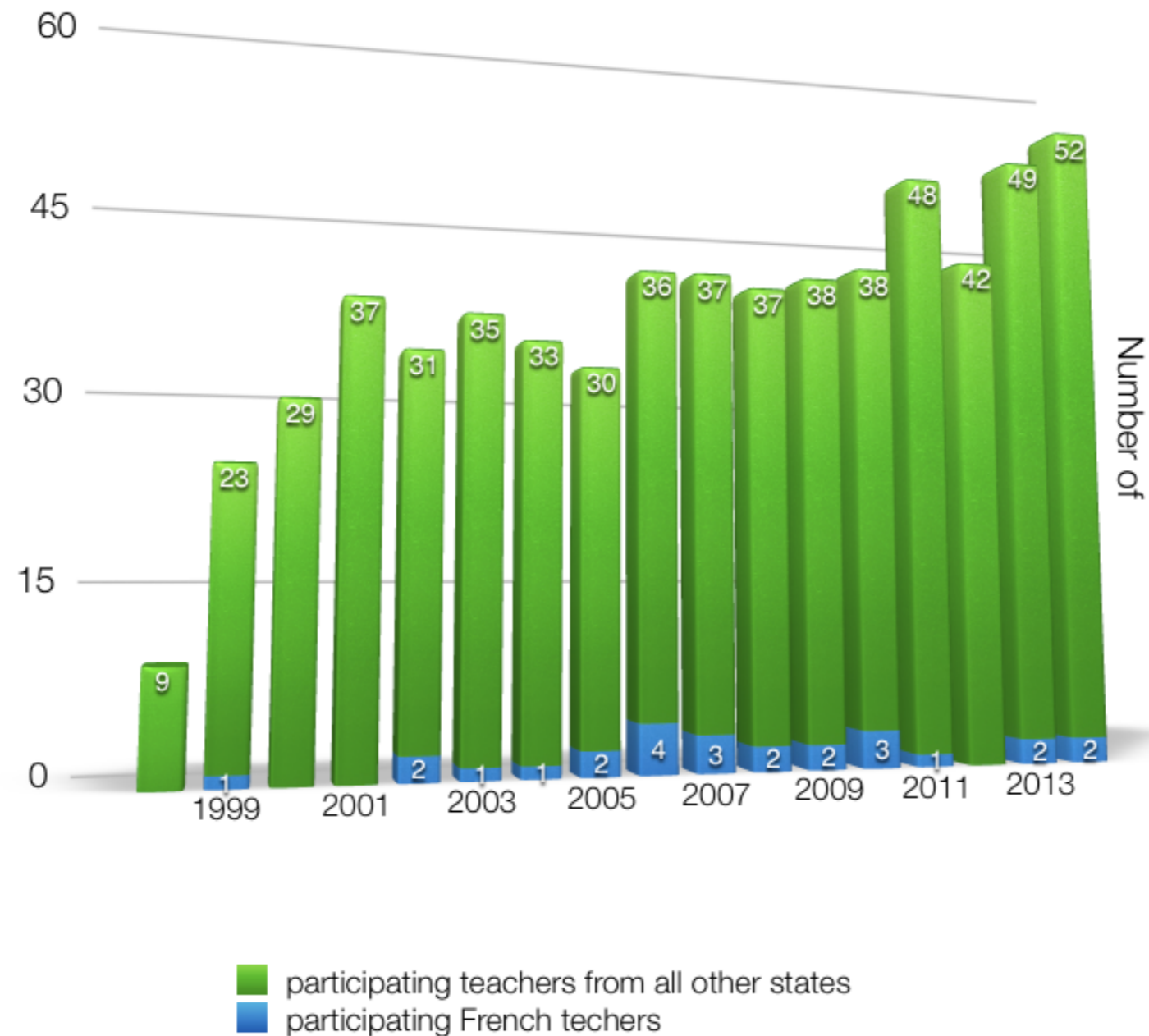
Development of Teacher Programmes at CERN

FRANCE @ CERN National Teacher Programmes



Development of Teacher Programmes at CERN

FRANCE @ CERN's High School Teacher Programme



Development of Teacher Programmes at CERN

- How do teachers benefit from the programmes?
- What are results of the programmes?

No research has been done!

It would be interesting to do but not easy.