QUESTION:
As science educators, just what is our primary aim?

..inspiring science teachers.. = ....inspiration for all students.
About us

Science on Stage Europe provides a European platform for science teachers to exchange teaching concepts and to share ideas. The ultimate goal is to improve science teaching by encouraging creativity in science teachers. Through this we will encourage more schoolchildren to consider a career in science or engineering by spreading good teaching concepts among Europe’s science teachers.
Science on Stage...

* ...is a teacher network established in 2000 as Physics on Stage which grew into Science on Stage in 2005
  - ...is a non-profit association since 2011 with administrative headquarters in Berlin
  - ...has National Steering Committees (NSCs) in 25+ countries
  - ...reaches about 40.000+ each year teachers and teacher trainers, e.g. via the NSCs
  - ...has organised eight European festivals from 2000-2015, next planned for Hungary in 2017
  - Each National Committee is self funding from local industry, governments and educational institutions

The European Office in Berlin is mainly supported by the Federation of German Employers' Associations in the Metal and Electrical Engineering Industries (GESAMTMETALL) with its initiative think ING.
Aims of Science on Stage

- we draw together teachers of school children of all ages to share experiences and work together on joint projects

- Promote science for young people via enthusiastic teachers

- we encourage teachers as to their own value and promote high quality teaching, seeking to demonstrate the importance of STEM to children, to the public and to decision makers across Europe.

SCIENCE ON STAGE

- ...is a network of and for science and technology teachers of all school levels.
- ...provides a European platform for the exchange of teaching ideas.
- ...highlights the importance of science and technology at school and among the public.

from teachers ...for teachers

European exchange
Our claim to uniqueness?

→ from teachers

...for teachers
Science on Stage...

.................executive board
7 members, elected by the NSCs

From Cyprus, Czech Republic, Germany, Spain, Sweden, Switzerland and UK.

meets twice per year plus skypes!!
Keeping in Touch

Science on Stage…
National Websites and
European Website

Plus facebook, twitter, blogs etc

and visits!!
How does Science on Stage enable the international exchange from teachers for teachers?
Activities

Science on Stage biannual festivals

Delegates SELECTED by national Committees
2011: Copenhagen (Denmark)
2013: Słubice - Frankfurt (Oder) (Poland/Germany)
2015: London (United Kingdom)
2017: Debrecen (Hungary)
2019 ??

Festival aims include...
Developing opportunities for working together
Activities

Science on Stage festivals

- Take place every 2 years at different venues throughout Europe
- Brings together up to 350 science teachers (primary to secondary level) from 25+ countries
- All participants pre selected through National events in each country
- Festival is free to participants
- Follow up activities encouraged across borders
- National contacts on www.science-on-stage.eu
Overview of the results:
Evaluation (2008-2012), Tanja Tajmel, Humboldt University Berlin

- **69%** of the teachers agreed that participation increased their motivation and joy in teaching.
- **74%** of the teachers appreciate the opportunity to exchange experiences with colleagues.
- **79%** of participating teachers have incorporated ideas that were presented at Science on Stage events into their own lessons.
- **50%** of the participants maintain 5-9 international long-term contacts.
- **50%** of participating teachers have incorporated ideas, they had acquired through Science on Stage events into teacher training in their home countries and thus functioned as multipliers.
Activities

The Science on Stage festival is a platform for the exchange of **new ideas** and **concepts** in science teaching.

**Follow-up-activities** ensure the development and sustainable spreading of these ideas and concepts.
Activities

Over 200 stalls with teachers demonstrating what has worked for them in their own countries.

www.science-on-stage.eu
OVER 200 STALLS

all with pages on website

www.science-on-stage.eu
Follow-up-activities ensure the development and sustainable spreading of these ideas and concepts.
Activities

Follow-up projects of the education festivals

1. Sharing ideas

within one’s country

• All participants are encouraged to take back ideas from the festivals back home, to share
  i) within their schools and localities
  ii) through teacher training events and conferences

* 50% of participants use ideas in training events to share with others

across Europe and beyond

• All participants are encouraged to make lasting friendships at the festivals which in turn lead to working relationships and sharing of fresh ideas.

• 50% of participants maintain 5-9 European contacts after festivals
Activities

PART OF MY STORY:

Presented a “What Happens next?” workshop

Two balloon experiment
Activities

PART OF MY STORY:
Take a workshop to Slovakia
PART OF MY STORY:

Zuzana Jescova takes up balloon idea…

..joint article for Physics Education..

partly researched by students
Activities

PART OF MY STORY:

Workshop presented jointly at next SOS,

with additional ideas from

Poland, Slovakia,

Workshop presented in

The Netherlands, Ireland, Belgium, Poland, Scotland, Czech Republic…….next October Italy
Activities

PART OF MY STORY:
Regular article in Physics Education, with contributions from different countries
Joint cross border articles in
Science in School and
Physics Education
A bonus!!

Holiday in Tatras Mountains..

Holiday in London....

Continuing cooperation/sharing....helium balloons etc
Activities

Follow-up projects of the education festivals

Teacher training events, and travel scholarships

- Workshops with international festival projects taken place in every Science on Stage country.
- Teachers can get scholarships for further exchange with their colleagues, to develop project ideas together.
- Science on Stage Europe provides funds to encourage...

"taking a workshop to another country"

19 WORKSHOPS FUNDED ACROSS BORDERS SINCE 2013

"working together on joint projects"

10 TRAVEL SCHOLARSHIPS FUNDED...

...but more unofficial links.

Activities

- Watching honey bees at a variety of locations:
  - Italy
  - Germany

- Sunspots and a rotating sun:
  - Sweden
  - Switzerland

- Radon and the environment:
  - France
  - Italy

- Colour chemistry with a smartphone:
  - Sweden
  - Switzerland

- Fascinating Physics:
  - Romania and Poland

- Mountains and Mining Project:
  - Germany
  - Hungary

- What happens next?
  - Slovakia and UK
Activities

POST LONDON 2015

.........already many joint projects and visits planned

→ from teachers
...for teachers
Activities

Follow-up projects of the education festivals

Development of teaching materials

- Groups of international teachers develop teaching materials together. Results are published and spread Europe-wide; e.g. Smartphones in Science Teaching. (2014).
Activities

Follow-up projects of the education festivals

Development of teaching materials

- The latest pan European is a group of 20 teachers from 16 countries developing materials and iStage booklet on „science and football“ sponsored by Science on Stage Germany. publication 2016
Activities

Follow-up projects of the education festival

Irish SOS

Have produced 5 booklets, 300 in each print run

Now on line, free downloads from

http://www.scienceonstage.ie/
Follow-up projects of the education festival

Publications

- Good-practice examples are edited in brochures from teachers for teachers and spread Europe-wide. Many teachers are inspired to contribute ideas to major journals, which have been inspired by the festival and joint work.

- Some joint papers have been published
Science on Stage
Press Releases 2015

Over 85 publications!!
COUNTRIES BID AGAINST EACH OTHER TO HOST FUTURE FESTIVALS...

Next festival is in DEBRECEN, HUNGARY 2017
Science on Stage festival 2015 announces Hungary’s successful bid
Science on Stage: June 29 – July 2, 2017
Debrecen, Hungary
Science on Stage festival 2017

10th jubilee in Debrecen/Hungary!

- 29 June – 2 July 2017
- Kölcsey Convention Centre in Debrecen
- 350 science teachers from 25 countries
- Fair, workshops, seminars, performances, lectures, cultural evenings
- Organised by ScienceonStage Hungary
- National selection events in the SOS Eu countries throughout 2016
Science on Stage festival 2017

Meanwhile....

• Selection events in all countries
• Follow up meetings across Europe
• Cross border exchanges
• Internet cooperation
• Joint papers
• Sharing good practice

.....all from teachers to teachers
Stay in touch

- Website at [www.science-on-stage.eu](http://www.science-on-stage.eu)
- Get in touch with Science on Stage in your country
- Newsletter via [www.science-on-stage.eu/newsletter](http://www.science-on-stage.eu/newsletter)
- Free teaching materials on website
Thank you for your attention!

BECOME PART OF THE INTERNATIONAL FAMILY

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Science on Stage 2017: Follow me to Debrecen, Hungary