

Introduction to Student Projects & Outreach

Markus Elsing (CERN)



Why Outreach training?

For our field it is important that we communicate to the general public what we are doing (and why we are doing it)!

- Funding agencies insist on Outreach and many provide dedicated funding
- Outreach as part of your CV is seen as a benefit by many institutes (when hiring)

It is not just for established physicists

• Students & postdocs play an important role!



Outreach means a whole range of activities:

- Acting as guides to visitors (general public, delegations, VIPs, VVIPs)
- Talking in Outreach events (e.g. talks to general public, school kids, etc.)
- Interviews with journalists (newspapers, radio, TV, etc.)

Therefore Outreach training is included in lecture programme since **ESHEP2014**



Outreach events at this School:







Tomorrow: Outreach / Media training

- Two training sessions (morning and afternoon)
- Evening (optional) one-on-one practice interviews

Sunday (next week): Student Outreach presentations

Evening session with 1 presentation per Discussion Group







Trainers:

Chris Jameson and Tony Prideaux from the company "Inside Edge"

- Training specialists and contractors with CERN
- Company does general courses and also individual coaching
- Both trainers have a background in BBC TV and radio journalism
- Needless to say that normally their courses would cost a lot...



The 2022

European School of High-Energy Physics

10 M

Nov 30 - Dec 13 2022



Training 1

()

12:30 --- Lunch +

15:30 Outreach Training 2

17:00

17:30

Free Time

--- Coffee

€ -

19:00 --- Dinner

Israel

Part 1 (11h00): Plenary session in auditorium

How to communicate about science to the general public, e.g. interviews with media

Part 2 (15h30): Parallel sessions in 2 groups (Shaked discussion rooms nearby)

- Group 1:
 - → Practice interviews and discussion with ~ 3 "volunteers"
 - ⇒ Based on "SUSY scenario" collect handout now
- Group 2:
 - → Will work with the trainer in the other room
- Swap rooms at about 16h00
- Short plenary close-out in auditorium at about 16h30 (15 30 mins)

Part 3 (20h00-21h30): Optional

- Optional individual practice interviews and coaching
- We will make sign-up sheets with time slots for one-on-one "radio" interviews
- This is usually very popular!
- You will be able to get the recording of your own interview after the School



Event 2: Student Outreach Presentations

Each (normal) Discussion Group will prepare one outreach presentation

- Each group will be assigned a different "hot" physics subject
- Prepare a 7 minutes presentation at a level suitable for a general audience
- You have time until the evening session (after dinner) on Sunday, December 11

Be creative!

- Imagine you are a science journalist giving a TV presentation/report
- Imagine you talk to group of VIP visitors coming to CERN
- You can select a single speaker or share the presentation between two or more people
- You can use graphics material, ...

Share the preparation work!

- Full group should be involved, give input and e.g. do rehearsals with the presenter(s)
- You can use some time during the discussion sessions to get organised, but most of the work will have to happen in your free time



On Sunday, December 11, each group will do their presentation in the evening, there will be a **small jury** (!)

- led by Dana Bernstein
 (Head of Communications at Weizmann Institute of Science)
- Jury will provide feedback and determine a winning presentation

We will **record** the presentations

- After the session, presenters will be asked for their permission to upload their video file onto the public INDICO web pages
- Material may be used e.g. by our CERN Outreach colleagues to show it to high-school students, and alike...

Judging criteria:

- 1. Content:
 - the content must be scientifically sound, and well chosen to suit the audience
- 2. Clarity: (critical for effective science communication...)
 the structure of the talk is important and the audience (judges)
 should be able to understand the science content
- 3. Connection / inspiration and enthusiasm: are the presenters able to project their enthusiasm for their science and is the audience (judges) left "inspired"

Use what you learn tomorrow from the Outreach / Media training!

European School of High-Energy Physics



Nov 30 - Dec 13 2022

Discussion Group A

Discussion Group B

Discussion Group C

Discussion Group D

Discussion Group E

W mass measurement

First image of Sagittarius A* by the Event Horizon Telescope

Evidence for flavour anomalies in B decays

H→μμ and the Higgs mechanism as the origin of fermion masses

muon g-2