

*Are you enthusiastic about physics?
Do you know your stuff?
Are you a performer?*

SAIP 2012 Physics Demonstration Competition

All physics departments and institutions in South Africa are invited to participate by presenting a short physics demonstration as part of a science awareness programme of the SAIP 2012 conference.

The topic is:

Fun physics for schools

Judging of the demonstrations will be done by a group of school children and all the conference delegates, with a great prize up for grabs:

Winning presentation: R 5 000 !!!

Please read the rules and regulations carefully.

Registration forms can be downloaded from the conference website.

Registration closes 13 June 2012.



UNIVERSITEIT VAN PRETORIA
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South African Institute of
PHYSICS
THE VOICE OF PHYSICS IN SOUTH AFRICA

SAIP 2012 Demonstration Competition

Rules & Regulations

The physics demonstration competition will be part of the afternoon conference programme on 11 July 2012. This will form part of an outreach programme where grade 11 and 12 learners from various schools around Pretoria will be invited to the conference.

A maximum of six groups will be selected to present a short physics demonstration on the topic: "Fun physics for schools". The demonstrations should describe some physical principle or law. The demonstrations will be judged immediately by the audience, and the winner will be announced at the end of the session.

Please take note of the following rules and regulations.

Presentation

- No chemical reactions/explosions will be allowed.
- Demonstrations will take place in a large lecture hall with a stage area.
- Demonstration equipment should be set up and be ready before the start of the session. Your setup will be kept behind the stage.
- Each group will have 3 - 5 minutes to set up their demonstration and then 10 minutes to perform their demonstration.
- Each group should immediately clear their demonstration equipment from the stage, while the next group starts to set up.

Judging

- Four aspects will be judged by means of an evaluation matrix (see next page).
- Judging by the audience will be carried out immediately after each presentation.
- The audience will consist of about 100 grade 11 - 12 school learners as well as the conference delegates.
- A score will be calculated for each presentation with the following weight distribution: 60% school group + 40% conference delegates.
- The presentation with the highest score will win the competition.
- In case of a tie, the audience will be asked to vote again for a winner.
- The award ceremony and prize giving will be done immediately after the demonstrations.
- Each performing group will receive an appearance fee of R 1 000.
- The winning prize for the competition is R 5 000.

Registration

- Only one group per university/institution will be allowed to participate.
- Registration will only be accepted by completing the attached application form.
- Application forms need to be sent to Johan Janse van Rensburg via e-mail to jvr@up.ac.za or fax 012 362 5288.
- The closing date for application forms is 13 June 2012.
- Applications will be reviewed and a selection of up to 6 groups will be made by a selection committee.
- Successful applicants shall be notified by 20 June.

Facilities supplied

- Stage area = 2.4 m × 7.6 m
- Video/Data projector with computer.
- Video camera (needs to be operated by a member of the presentation group themselves)
- Overhead projector. (Note that the overhead projector can not be used simultaneously with the video/data projector)
- Two lapel microphones with sound system.
- Electrical power point.
- Table.
- Any special arrangements you may require need to be indicated on the registration form.

Evaluation sheet example

Criteria	1	2	3	4	5
Quality of explanation (scientific content)	What was that?	Did not understand everything	Average explanation	Good explanation	Crystal clear explanation
Use of equipment	Inappropriate use of equipment	Did it at school before	Nice, that was interesting	I would love to try that myself, if I had the equipment	I can and will show my friends at home
Entertainment value	Boring	Predictable	Average	Great	Awesome!
Showmanship (communication skills / enthusiasm)	I fell asleep	Boring	Average presentation	Good presentation	Excellent presentation – Post it on YouTube!

Total score: 20

SAIP 2012 Demonstration Competition Registration Form

Group Name	
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Group representative contact details	
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Name	
Surname	
Institution	
E-mail	
Telephone	
Cell	

Presentation	
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Title	
Description	
Other (special arrangements or requirements, etc.)	

Please send your completed form to Johan Janse van Rensburg (jvr@up.ac.za) or fax 012 362 5288
The closing date is 13 June 2012.