

ASFAP COMMUNITY ENGAGEMENT TOPICS

A. Physics and Environmental Pollution:

How can we use Physics to resolve the problem of environmental pollution? To raise awareness of the local community on subjects that matter to their everyday life.

In the cases of plastic and pharmaceutical waste:

- Recycling methods for plastics
- Waste burning (e.g., incineration of pharmaceuticals wastes)
- Pharmaceuticals return to pharmacists or clinics
- Special collection programs for pharmaceutical waste (old and unused)
- Education & Awareness campaigns on the safe disposal of pharmaceuticals and plastic waste (e.g., School visits; Radio Talks; Podcasts; website; etc)

B. Physics and Climate change

C. Physics outreach & Education:

In order to create awareness and broaden community's understanding of Physics

- Survey on the views of Physics teachers in Africa;
- Periodic Trainings of Physics teachers in Africa;
- Virtual Physics laboratories: for those schools where there is no access to laboratories (+ internet access): classroom demonstrations for teachers and students;
- Annual Physics community fairs: to show the local community how Physics can help them in everyday life & introduce children to the fun of Physics;
- Organise campus visits for high school children to observe some fun Physics experiments;
- Weekend & holidays science classes (for example the University of Johannesburg SOWETO Science Centre in South Africa);
- Physics Olympiads (as it is done in India).

D. Astronomy in the service of physics

E. Introduce the ASFAP initiative to local governments through the African Union (AU)

F. Demographic survey