

# Science Day

On 18 March, Physoc took part in NUS Science Day among other student societies. Outside LT25, stood our booth decorated with a banner aligned to the event's theme of 'Detective'. Our booth activity presents the fun and interactive experience of creating smoke rings from very simple materials. In addition, we offer participants the challenge of striking down "villain" targets using air guns. Finally, the sales of Physoc Spherical Cat T-shirts remain an invariant feature of our booth.

The event began at 10am and our first curious customers investigated the approach to beat the air gun challenge. While some were fortunate to hit down the targets at their first attempts, others tried several times to no avail.



*Point blank attempt.*



*Winning participant posing for a photo.*



*Serious participants taking delicate, controlled aim with air gun. To win the game, they must strike down all the target cups on the table with a single blast from the air gun.*





*Participants trying to create smoke rings from dry ice.*

After succeeding in the challenge, participants are given the opportunity to create smoke rings out of dry ice. The smoke ring generator is a simple apparatus: a styrofoam cup punctured with a small hole at its bottom and a thin membrane secured over the top.

A small piece of dry ice is first submerged into a cup of water. The dry ice sublimates and produces a cloud of water vapor. The smoke ring apparatus is then placed, with its bottom facing down, over the “cloud emissions”. The cloud is drawn in when the membrane is gently tapped. After collecting enough vapor into the apparatus, one can shoot out a ring-shaped vapor by sharp flicks on the membrane.

Simple as it was, the participants had fun experimenting on the activity. The event lasted to 5.00pm and we too had fun.