

# SCIENCE SHOWS

Scientific shows provide surprising experiences, interesting observations, exciting challenges and captivating entertainment. They are a perfect idea for everyone keen on watching ambitious and extraordinary performances.

Each show is a series of thematically grouped experiments that engage the audience. The experiments are presented with a dose of scientific knowledge and a lot of humour. Each show's level of difficulty and form of presentation is adjusted to the age and preferences of the audience.

Copernicus' Science Shows are a great addition to all big and small events, festivals, conferences, picnics, birthday parties and corporate events.

We cooperate with mass event organisers, companies organising conferences and special events, as well as shopping centres, schools, cities, communes, culture and education institutions, and all science enthusiasts.



**Important information  
about the shows**



we offer 3 different science shows



one order can include one or two different shows



each show is led by 1–2 animators



each show is approx. 25–30 minutes



the number of spectators is unlimited (subject to room/hall capacity)



each show can be adapted to the audience (depending on the age and preferences of the spectators)



our visit can last 1–4 days



one day is up to 6 shows during 6 hours (incl. mandatory 30-minute break after each show)



**Requirements**



at least 3x3 metres stage area



headset microphones (wireless)



access to power supply connection



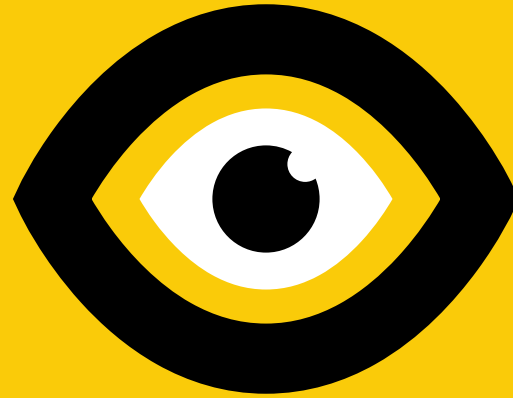
possibility of setting up all equipment at least one hour before the first show



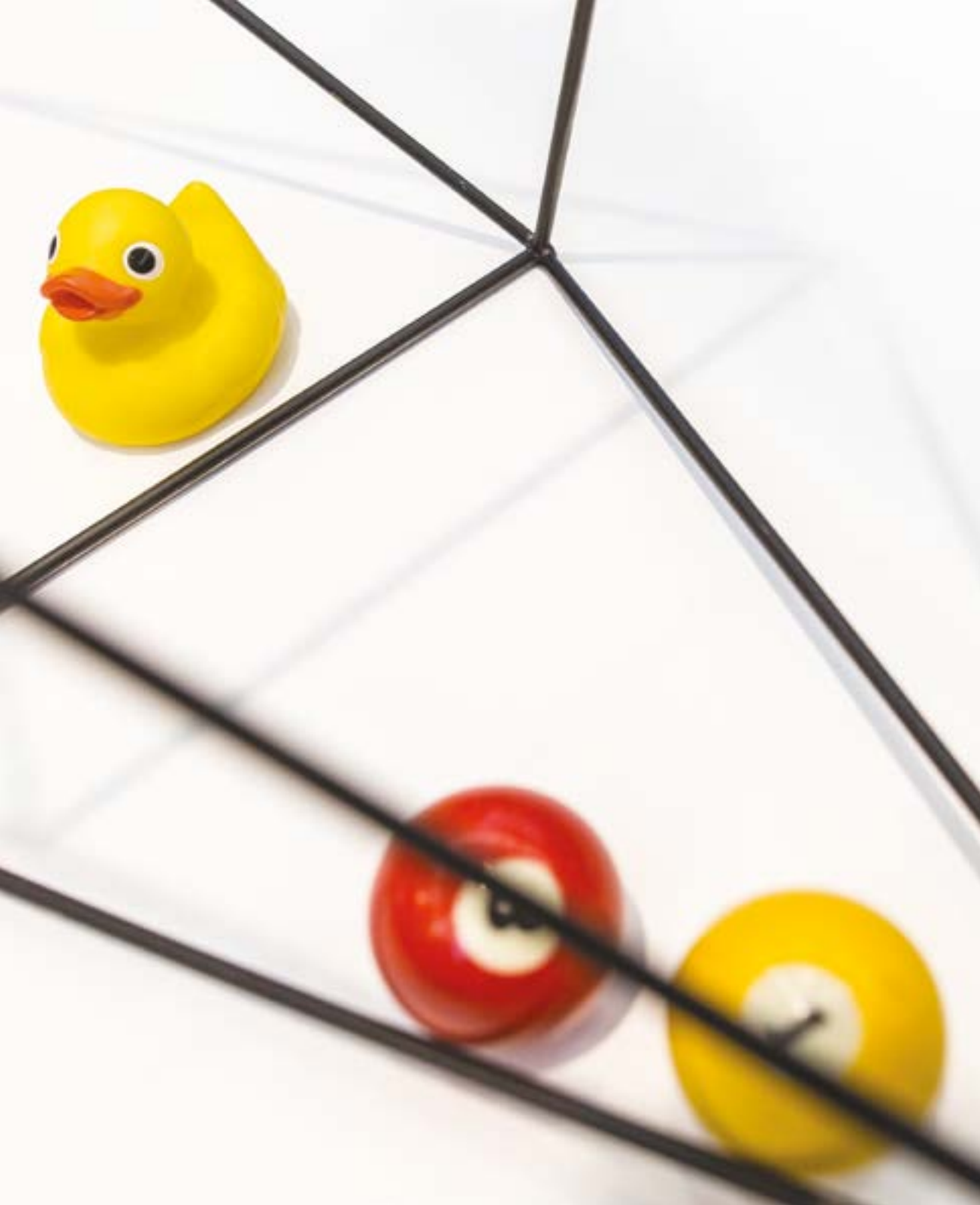
easy access for volunteers who want to come on stage



full-board accommodation for 2 animators



**Copernicus  
Science Shows**



## Captured Mind

How do illusionists take advantage of the imperfections of our senses? Can rhythm affect our perception of time? How do advertising specialists put their knowledge about how the brain works to practical use?

Our brain takes information coming in from our senses and builds a model of the world around us. It has to cope with the huge quantity of incoming stimuli, so it tries to select and filter out the most crucial information. However, it is more heavily influenced by emotions than we might realise. In fact, it takes guesses, contrives, searches for patterns, manipulates our memories. If you think you know everything about yourselves, you'll be surprised. You will experiment with yourselves: your thoughts, power of suggestion, and optical illusions – and find out that the world around us is not always as we perceive it to be.

### **Special requirements:**

– none





## Music

What is sound for a physicist and for an artist? How does metronome work? Can everything be an instrument?

Let's play! Come and make music with us! We will reflect on the many ways this subject can be approached – both artistically and with physics and acoustics in mind. We'll look for elements necessary to create sounds; get familiar with different instruments and identify the most popular noises; we'll also take a closer look at human senses related to sound – speech and hearing. At the end we'll create an orchestra and play a melody all together.

### Special requirements:

- possibility of connecting two cinch jacks to a mixer/ sound system
- access to a portable gas stove
- easy access to the audience (when giving out instruments)



## Pressure

How much does air above us weigh? Where does atmospheric pressure come from? Why alpinists cannot rest with a cup of strong tea?

Atmospheric pressure is the force exerted by air against the surface of the Earth. Many commonly known phenomena are related to it, including boiling of water in a kettle, wind blow, and movement of clouds in the sky. Usually we don't think much about them but here they will be in the centre of attention. We will also find out what atmosphere has in common with apple peel and why it's easier to become short of breath in the mountains.

### **Special requirements:**

– none



**Contact**

Copernicus Science Centre  
Wybrzeże Kościuszkowskie 20 St.  
00-390 Warsaw

**[pokazynaukowe@kopernik.org.pl](mailto:pokazynaukowe@kopernik.org.pl)**  
**[www.kopernik.org.pl](http://www.kopernik.org.pl)**

Organisers CNK



MINISTERSTWO  
EDUKACJI  
NARODOWEJ



Ministerstwo Nauki  
i Szkolnictwa Wyższego