

Cascade

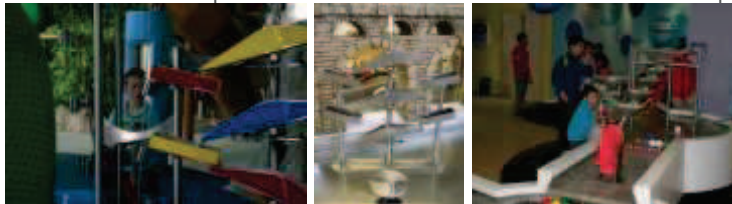
Visitor Experience

Visitors pump up water to feed the cascade. They observe the scoops tilting as the water is flowing down the cascade. The same principle of tipping buckets is used in high-precision rain gauges.

Image



Centrum Nauki Kopernik - Roots of Civilisation: S-02530-Water pouring



An Arbor

Scientific Content

The tipping bucket rain gauge consists of a large copper cylinder set into the ground. At the top of the cylinder is a funnel that collects and channels the precipitation. The precipitation falls onto one of two small buckets or levers which are balanced in same manner as a scale (or child's seesaw). After an amount of precipitation equal to 0.2 mm falls, the lever tips and an electrical signal is sent to the recorder.