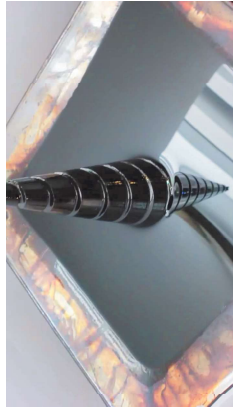


3.1 Science trail
Phenomena of materials

Ferrofluid | 3D color drawing

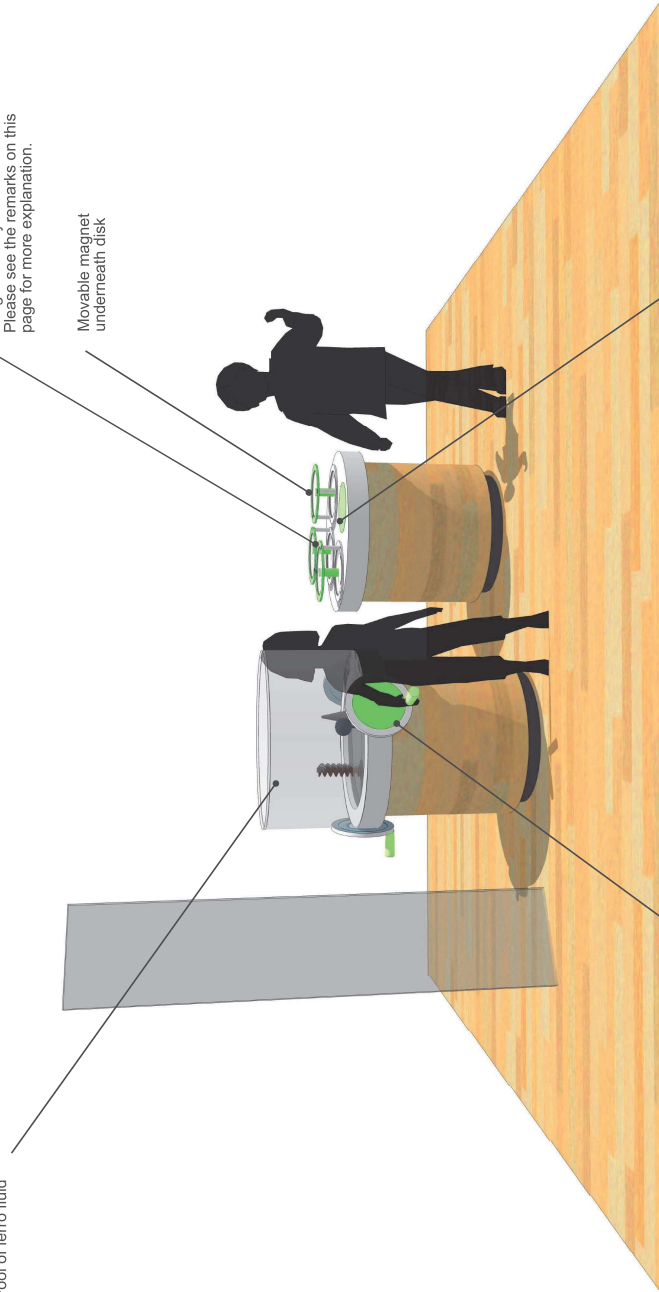


Pool of ferro fluid



"Magnetic Labyrinth" disk.
Please see the remarks on this
page for more explanation.

Movable magnet
underneath disk



Hand wheel with integrated
instruction panel

Instruction panel

Theme ST. Science trail
Sub-theme ST.05 Phenomena of materials
Exhibit code ST.06.05 Ferrofluid

Visitor experience

Visitors manipulate ferromagnetic fluid in several ways. In the one half of the exhibit, visitors observe the effects on a pool of ferrofluid by moving different magnetized sculptures up and down in it. In the other half of the exhibit visitors manipulate ferro-magnetic fluid constrained between closely-spaced pieces of glass with a magnet. Ferrofluids are fluids with nanoscale-sized, iron-containing particles suspended in them. In the presence of a magnetic field, these fluids react to create very interesting and exotic patterns. These fluids are being considered for use in a host of industrial applications.

Educational goal

Discovering magnetic fields and characteristics.

Title on exhibit label
Iron fluid

Inquiry question
What do magnetic fields look like?

Science topic
Physics > Mechanics > Fluid mechanics and magnetism

Size approx. 2400 x 1200 x 800

Exhibit originality Refer to exhibit list
Type of interactivity Refer to exhibit list
Display method Refer to exhibit list
No. of users / visitors Refer to exhibit list
Age group Refer to exhibit list
Accessibility Refer to exhibit list

Disclaimer

For all integrations, dependencies and/or coordination of the exhibit with environmental gallery elements, please refer to the details, dimensions and specifications indicated in the Gallery Design package. All information given on these drawings that refer to any gallery environmental reference are purely indicative and need to be checked in the above stated package.