

ESfs 2026 Exhibitor Profiles

- Alberta Geological Survey of the Alberta Energy Regulator C5**
- Explore 3D geological modeling with hands-on model demonstrations and virtual demonstrations in Minecraft.
- Alberta Palaeontological Society C6**
- The Alberta Palaeontological Society mission is: To promote the science of palaeontology through study and education. To make contributions to the science by: Discovery, Curation and display, Responsible collection, Education of the general public, and preservation of palaeontological material for study and future generations. To work with the professional and academic communities to aid in the preservation and understanding of Alberta’s heritage.
- Calgary Rock and Lapidary Club D2**
- We will have displays of interesting rocks, fossils, minerals, crystals. Charts and display of our club activities, studio.
 - Volunteers will discuss, explain our display, and educate attendees about interests in rocks and our club. Rocks – how to collect; what can be collected; studied; worked on through lapidary techniques; identification.
- Canadian Association of Geophysical Contractors D5**
- We will have seismic equipment, sensors and a TV to explain technologies.
 - We explain how we fit into the energy supply chain and the importance of energy to the wellbeing of the world’s population. We explain how we explore the subsurface for resources and the various technologies being used by contractors.
- Canadian Energy Geoscience Association Foundation B3**
- We will have cores and rocks/fossils for attendees to handle, observe, and discuss.
- Canadian Natural Resources..... A1**
- Focus on responsible exploration and extraction of natural resources. Hands-on exhibits of Geology and Geophysics used in the search for hydrocarbons.
- Canadian Nuclear Society..... B1**
- Our booth describes Canada’s unique position in the nuclear field, our status as both major uranium producers and holders of the worlds most respected nuclear intellectual properties. There will be a selection of common radioactive materials and an overview of the nuclear industry and recent developments.

Canadian Rockies Earth Science Resource Centre..... C2

- We have a booth called the "Petroleum Exploration cycle" which discusses the activities that one does in the exploration for oil and natural gas - study regional geology to understand the area of interest, use seismic to define drilling locations, drill wells to find reserves and produce products to the market. Hands-on fossils and maps, etc. are available

Canadian Society of Exploration Geophysicists A6

- Our booth will demonstrate how remote sensing and indirect measurements are used to understand the Earth. Seismogram, slinky, cutaway geophones. In addition, we are adding a simple tsunami demo that shows how an underwater disturbance creates waves and how those waves travel.

CREWES, Department of Earth, Energy, and Environment, Faculty of Science, University of Calgary B5

- The exhibit will consist of a wooden beam with geophones connected to a Geode recording system with a live display, an earthquake seismometer with a live display, and a ground penetrating radar cart. Activities will include tapping on the wooden beam and observing the geophone response, jumping up and down on the floor and observing the seismometer response, and running the radar cart which will show what the room looks like below the floor.

Department of Earth, Energy, and Environment, University of Calgary C4

- At outreach events, the Department of Earth, Energy & Environment shows how Earth Science benefits society by making it hands-on and relevant. The augmented reality sandbox lets people see how landscapes form and change in real time, connecting geoscience to issues like flooding and resource management. Fossil casting lets participants hold the past in their hands, sparking curiosity about evolution and Earth history. Together, these activities highlight how geoscientists study and protect our planet while also showcasing how our programs train the next generation of problem-solvers—building a talent pipeline that supports energy, environment, and sustainability for society.

Devonian Reef Diorama - Sandstone Prehistoric Safaris Calgary..... C7

- Students will have the opportunity to see what a reef looked like 380 million years ago! It includes depictions of the now extinct organisms responsible for building Devonian age reefs, as well as the sea life that lived among them.

Ed Leith Cretaceous Menagerie Museum..... C3

- We will have any array of touchable geological and paleontological samples, as well as some replicas for students to handle.

Energy Safety Canada / Careers in Energy D4

- We will provide the opportunity to explore the diverse work environments and worksites in the energy sector with our leading-edge virtual reality experiences. Experience the energy industry in a whole new way!

ESfS Trilobite Fossil Station..... C1

- This booth focuses on the study of palaeontology, focusing specifically on trilobites! We have many hand samples as well as posters to show the various parts of the fossil and how to identify them as well as their significance.

Geoscience Activity Tables (Sunday afternoon and Monday evening) FOYER

- Geoscience colouring and activity pages for youth.

Journey 2050 D3

- This exhibit will explore the topic of sustainably feeding our world in the year 2050. Discover a series of interactive activities focused on soil and its importance in our daily lives and food production. Participants of all ages will learn about sustainability in a fun and engaging way!

Mining Matters A4

- The Mining Matters interactive exhibit will include hands-on learning activities that connect geoscience to society. The topics that will be explored in the activities include mineral properties, critical minerals, and products made from mined materials.

Natural Resources Canada - Geological Survey of Canada (Calgary) A5

- We will have a variety of hands-on rock and mineral samples for participants to look at and handle. Geoscience experts who will be available to discuss their provenance and explain their significance. Demonstrations will be aimed at the macroscopic level.

Ocean Networks Canada D6

- Ocean Networks Canada will demonstrate the wonders of the deep sea with cool creatures, deep ocean samples, live data from a suite of oceanographic instruments and stunning audio and video. Participants will explore different ocean phyla to discover which is unique to the ocean and explore how the sonorous music of whales and marine mammals can be impacted by human noise.

RASC Calgary (Royal Astronomical Society of Canada, Calgary)..... B6

- Our display will highlight light pollution and energy efficiency. We will have a telescope for display and meteorite materials to examine.

Rothney Astrophysical Observatory..... D1

- We are planning two demonstrations that are related to gravity. The demo for young learners will involve celestial motion in our solar system. The older learners will have a chance to test gravity in demo of asteroid orbit and motion around a larger mass. We will pilot the demos with our visitors to the observatory and be ready to go for the ES Fair.

Switch Classroom B4

- Switch Classroom will host an interactive, hands-on energy exploration exhibit that invites students, families, and educators to explore how energy from the Earth is transformed into electricity and used in everyday life. The exhibit is designed to be engaging and accessible, allowing visitors to participate for short or extended periods.
- The exhibit will feature two connected Switch Classroom activities:
 - Play-Doh Electric Circuits Lab: Participants will use Play-Doh, LEDs, and batteries to build simple electric circuits. Through experimentation, visitors will explore how electricity flows and why some materials conduct electricity while others do not. This tactile activity encourages curiosity and problem-solving and is accessible for a wide range of ages.
 - Wind Energy Engineering Challenge: Participants will design, build, and test small-scale windmills using recycled materials such as cardboard and paper. By modifying blade shape, size, and angle, participants will investigate how wind can be harnessed to generate electricity. Facilitators will guide participants through testing and improvement, modeling real-world engineering practices.
- Together, these activities tell a complete energy story: wind provides the energy, turbines convert that energy into electricity, and circuits deliver electricity to power lights and devices.
- In addition to the hands-on activities, Switch Classroom will provide Educator Resource Bags containing free lesson plans, classroom activities, and extension materials focused on energy sources, transformations, and trade-offs. These take-home resources allow educators and families to continue learning beyond the event and support further exploration of topics such as renewable and non-renewable energy, systems thinking, and real-world energy decision-making.

Ten Peaks Innovation..... B2

- We will have pull up banners behind the table. We have interactive and hands on energy conversion kits emulating the energy sources Alberta has: wind, solar and natural gas turbines. Students can make the solar panel activate, wind and turbines spin to generate electricity. That creates noise, makes lights blink and fans to turn. Students must connect the end piece with the energy source using wires. When students engage with the kits, we discuss all forms of energy used to produce electricity; natural gas, geothermal, wind and solar.
- Ten Peaks are huge fans of carbon capture and technological advancements in geothermal to generate low carbon, low emission energy.
- We also showcase our mudd watt kits – microbial fuel cell kits used in our case competition. We describe how microbes in the mud (in the active kits) are creating electricity, enough to power digital clocks and blinking lights. These kits are available to teachers for in class science.

WISE (UCalgary) (Women in Science and Engineering)..... A3

- The Women in Science and Engineering (WISE) exhibit will feature an interactive Oobleck Experiment designed to introduce students to the fascinating world of non-Newtonian fluids through hands-on exploration. The exhibit will include a small plastic pool filled with a cornstarch-and-water mixture commonly known as oobleck where students can directly engage with the material by touching, poking, and pressing on it. This experience will allow participants to observe how the mixture behaves differently depending on the amount of force applied, illustrating the unique properties that distinguish non-Newtonian fluids from regular liquids.
- In addition to the interactive portion, WISE members will guide students through a step-by-step demonstration of how to create oobleck, explaining the scientific principles behind its behavior in a clear and engaging way.
- Informational posters and short visual aids will describe concepts such as viscosity, shear stress, and the difference between Newtonian and non-Newtonian fluids. This multi-sensory activity will help students connect abstract scientific concepts to real-world phenomena in an enjoyable and memorable format.
- By combining visual, verbal, and hands-on learning, our exhibit aims to spark curiosity, encourage critical thinking, and inspire young students to see the fun and creativity that can come from exploring science and engineering.

Yukon Dan Gold Panning..... A2

- Visitors will be panning for gold!