



What to Expect in NASA Village: Tents and Topics

Journey to Tomorrow Traveling Exhibit parked on Erieside Ave.

Topics and Activities by Tent

1. Exploring the Moon –

Learn more about NASA's work to "map" the Moon and provide power for future rovers and exploration operations. The Lunar Reconnaissance Orbiter (LRO) team will be on hand to talk about its mission to create a 3D-printed map of the Moon to help identify future landing sites and resources. We'll also have energy conversion demonstrations to show how we might provide power on the Moon without sunlight.

2. Rovers and Wheels –

See a full-scale model of NASA's Volatiles Investigating Polar Exploration Rover (VIPER), which is heading to the Moon later this year to search for ice and other resources. You'll also get to learn about specially designed tires for exploration on lunar and Martian surfaces and experience NASA's Simulated Lunar Operations Laboratory (SLOPE). Using remote control cars, we'll demonstrate how we test tire performance, excavation tools, and other vehicle components to ensure they are ready to explore the surfaces of the Moon and Mars.

3. Artemis: To the Moon and Beyond –

Have you ever seen a real rocket engine? What about a thruster? In here, you will! Experts will be on hand to talk about Artemis, the Orion spacecraft built to take humans farther than they've ever gone before, and our future lunar outpost called Gateway. We'll talk about why we're going to the Moon and Mars and how we plan to get there using NASA Glenn's power and propulsion testing and expertise.

4. Living and Working in Space –

What's it like to be an astronaut in space? Talk to experts about how astronauts live and work in low Earth orbit. Learn about the science experiments conducted on the International Space Station and how this work benefits life on Earth and future exploration. We'll explain how our communications networks work in deep space. You can also "test out" working on the International Space Station and suiting up for your first mission through augmented and virtual reality interactive experiences.

5. Eclipse Glasses –

Safe eclipse viewing is NASA's number one priority. Get your free viewing glasses here and learn about eclipse safety.



6. NASA Village Welcome Center –

Learn more about NASA and how the technology and innovations developed for aeronautics and space exploration are improving life here on Earth. You'll also be able to talk to experts about NASA career and internship opportunities so one day you can be a part of the NASA team.

7. Meet and Greet –

Meet astronauts Jessica Watkins and Stephen Bowen, the "Passtronaut" Joshua Dobbs, and Astronaut Snoopy. These extraordinary visitors will be available throughout the festival to meet and greet with attendees. A daily schedule will be provided.

8. Cleaner Aviation –

NASA uses wind tunnels to simulate flight conditions for aircraft and spacecraft model testing. See how these wind tunnels work and learn about one of the engines designed and tested at NASA Glenn through an augmented and virtual reality interactive experience. The High-Efficiency Megawatt Motor (HEMM) was designed to meet the needs of electrified aircraft propulsion, improving fuel efficiency, reducing emissions, and decreasing dependency on carbon-based fuels.

9. Air Taxis and Drones –

Who is ready to ride in an air taxi? Visitors to this tent will be able to try it out via our virtual reality air taxi demo. We will also have a hands-on activity called Rotor Motors where you'll see how vertical takeoff and landing works.

10. Quesst: Quiet Supersonic Flight –

Quesst is NASA's mission to demonstrate supersonic flight without generating loud sonic booms. We will have an X-59 model, flight simulation experiences, and a sonic boom thump demo for visitors to learn more about this mission and the benefits of quiet supersonic flight over land.

11. Eclipses and Solar Science –

Why does NASA study the Sun and its influences on Earth, the atmosphere, and space? Find out by talking to heliophysics experts who will share the "why" behind this science and the "what" to expect during Cleveland's time in totality. We'll also have hands-on activities to make ultraviolet bead bracelets and eclipse chalk art.

Journey to Tomorrow –

Attendees can walk through the "Journey to Tomorrow," a traveling exhibit complete with interactive English- and Spanish-language kiosks, a replica lunar rover tire, and an Apollo-era Moon rock.

★ Attendees will also see large-scale, inflatable displays of the revolutionary X-59 plane designed to quiet supersonic air travel, the Space Launch System rocket slated to take the first woman and person of color to the Moon, and a Mars habitat concept. They will also get to take photos at the NASA-themed selfie station and with the iconic NASA "meatball" insignia designed in Cleveland.