

1. What a neutrino interaction looks like in the MINOS detector. Each box is a computer representation of the resulting particles crossing a scintillator strip.
2. Enrico Fermi, the Italian-American physicist and the creator of the name "neutrino" meaning "little neutral one."
3. "ne", the symbol for the electron neutrino.
4. Rings of light created by neutrino interactions in Japan's Super-Kamiokande neutrino detector.
5. The MACRO experiment at the Gran Sasso laboratory in Italy.
6. A neutrino interaction as seen in the Soudan 2 experiment (which took place next door in the room adjacent to the room you're standing in)
7. Davis' Homestake Gold Mine dry cleaning fluid tank used to observe neutrinos produced by the fusion reactions which power our sun.
8. Depicts the "Standard Model" of particle physics.
9. Ray Davis, who in 1964 identified neutrinos from our sun through their ability to transform chlorine atoms to argon atoms in a 600-ton tank of dry cleaning fluid deep in the Homestake Gold Mine.
10. Depicts a neutrino-proton interaction
11. Minnesota Department of Natural Resources logo.
12. Fred Reines and Clyde Cowan, the first people to experimentally identify neutrinos.
13. " ν_τ ", the symbol for the tau neutrino.

14. Wilson Hall, the headquarters of the Fermi National Lab in Batavia, Illinois
15. The "LINAC", part of the particle accelerator at Fermilab
16. Bats seen at the Soudan Lab (the face of the artist is cleverly hidden in the bottom bat)
17. Depicts the β decay of a neutron
18. " ν_μ ", the symbol for the muon neutrino
19. Austrian Physicist Wolfgang Pauli – the first person to propose the idea of the neutrino
20. A dolphin's head (several faces and animals are mysteriously hidden throughout the mural).
21. A fish-eye image of the interior of the Sudbury Neutrino Observatory (SNO), a second generation solar neutrino experiment located in Ontario, Canada.
22. Light produced by a cosmic ray muon on the SNO Experiment.
23. The headframe located at the top of the mine shaft.
24. The Soudan Lab is 2341 feet below the surface of the earth (689 feet below sea level).
25. The Minotaur.



Joseph Giannetti, Mural Artist
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The mural

Energy changes, accepting that all things are in motion, you me, the world, the universe, everything. On the subatomic level to the universal level "everything is in motion". There is one thing that is constant, "CHANGE." I began to think about this concept and the great exploration that these scientists are on, a exploration into the nature of energy. The great discoveries into sub atomic particles. These particles that go through everything presented all kinds of possibilities. The awareness of our own energy and its function in the whole scheme of the universe and the waves of our own consciousness. I abandoned the traditional idea of dealing with a wall, that is to say to let the Wall dictate what I can do. The wall was to uneven and the viewing distance and angle were very exact. I decided to make the image become part of the solution for the wall. I decided the concept as strong as possible. I wanted idea it to overwhelm the viewer. I wanted it to take hold of the viewer and make them feel as though they were moving and everything around them was moving.

People that worked directly on the mural wall: Joseph Giannetti, Lella Giannetti, Mick Pulsifer, Iren Kilanoski. People that helped in all sorts of ways to make this mural happen Marvin Marshak Phd., Peterson Phd., Louie Barrett Phd., Alec Habig Phd., Anita Sue Kolman Phd., Bill Miller, Jerry Meier, Mike McMillan, Brian Anderson, Curt Lerol the whole day!