Over the last twenty years neutrino oscillations went from a crazy-seeming idea to precision science. Neutrinos are produced in one of three flavors in weak interactions. As they travel, though, they can interact as a different flavor neutrino with a probability that varies with energy and distance travel. This change in flavor can be used to probe the neutrino mass spectrum, their quantum mechanical mixing, and test for neutrino charge-parity violation. These properties have cosmic implications. This talk will outline the history of neutrino oscillations, describe new results, and outline the field's future plans.

Friday, February 12, 2016
4:00-5:00 pm
OPS, Room 140

Light refreshments will be served