

Keith Gollwitzer, Senior Scientist, Fermilab

I have been with the Accelerator Division for the last 20 years. Initially, I was part of the Antiproton Source Department to help run the Charmonium Experiment E835 (both the accelerator and the detector). I was involved with running the Antiproton Source for Tevatron Run II with eventually becoming the Department Head for the last 5 years of antiproton production.

After Run II, I joined the Proton Source Department where I was managing two different plans or programs: the Booster part of the Proton Improvement Plan (PIP) and the Proton Driver aspect of the Muon Accelerator Program (MAP). For PIP, I additionally led the effort of beam and simulation studies concerning the Booster Shielding Assessment. For MAP, I worked with the Project X physics working groups planning experiment evolution for day one Project X to MAP.

I have been the leader of the Science Group of the Target Systems Department since its creation 2 years ago. I am involved with the possible upgrade to the Booster Neutrino Beam Horn System which could increase the number of produced neutrinos by 75%. In February, I became the co-level 3 manager of the LBNF neutrino beam line. My involvement with LBNE/LBNF prior to this year has been to be part of reviews of the near site beamline.

I have served on several Fermilab committees and panels. Currently, I am chair of the Shielding Assessment Review Panel responsible to ensure all shielding assessments are done properly.

My neutrino physics experience comes from my first two years of graduate school where I worked for the Professor Herbert Chen. During those two years, I worked on three experiments: early SNO Monte Carlo work; simulations and proposal work for LCD at Los Alamos; and a small data analysis of Los Alamos E225. After the passing of Professor Chen, I moved from neutrino to charmonium physics.

My goal with managing the LBNF neutrino beamline is to keep the facility flexible to support DUNE as well as possible future experiments.