

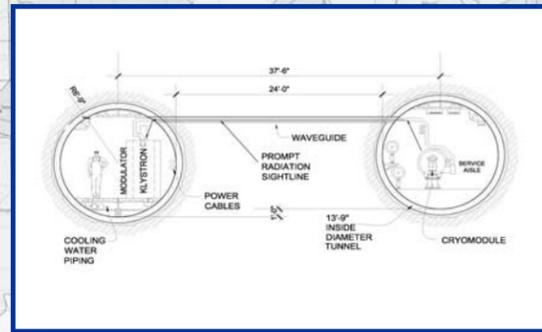
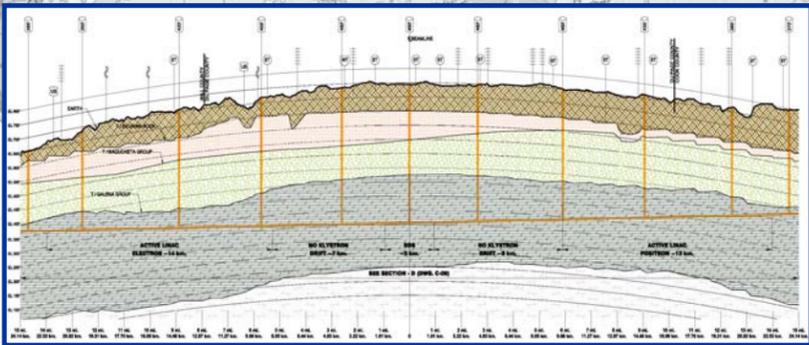


International Linear Collider Illinois Site Studies

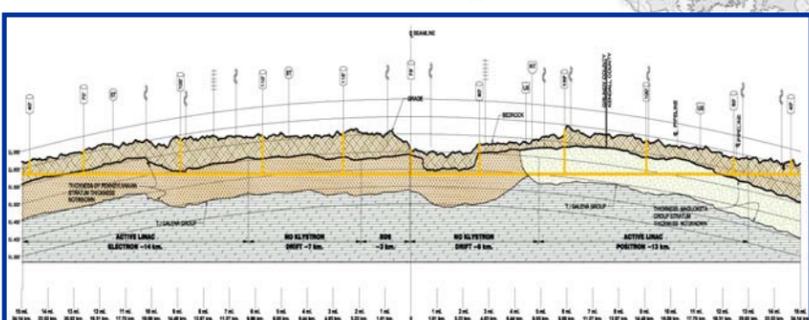
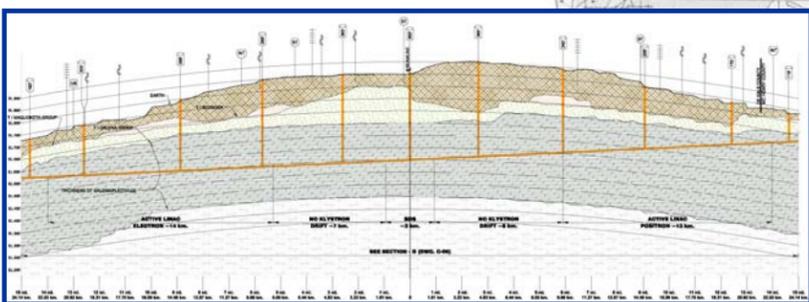
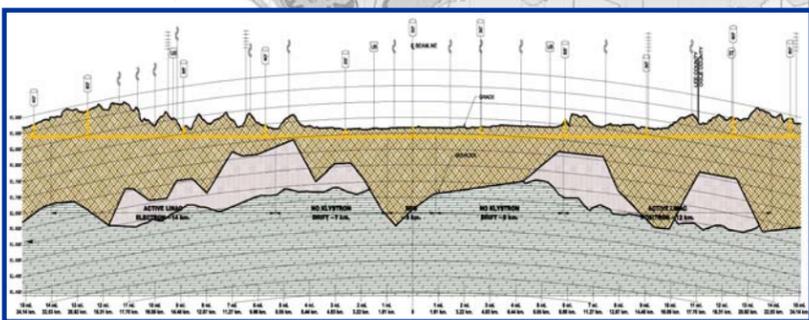
Northern Illinois presents numerous possibilities for the siting of the International Linear Collider. Several sites are being explored. Each proposed site has implications that are favorable or less favorable to a successful conventional construction fulfilling the projects requirements. Different sites are conducive to near surface construction methods such as open cut or braced excavation construction while other locations are suitable for deeper rock tunneling construction methods. Proximity to Fermilab, access to power, population density, and environmental impacts are just a few of the many items that need to be considered when choosing a site in addition to cost. The various sites have features that affect initial construction cost, operational costs and ease of technical operations.

Partnering with engineers at SLAC the ILC Conventional Construction team has begun to develop methods of comparing various sites while continuing to refine and document the technical criteria. The current effort is not intended to select a potential site, nor are the sites being examined fixed in its location. In most cases, the siting can be adjusted by miles without substantially changing the pertinent site features.

Victor Kuchler
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Typical Rock Cross Section



Typical Site Profiles Under Study

This process is intended to compare the salient features of each location and provide a tool to develop a clear understanding of the relative effect of the project as a whole. The analysis of each location will consider not only the construction and installation phase of the project, but the eventual impact on the long term operations of the International Linear Collider as well. Our current effort is limited to two rock tunnel design solutions and three near surface design solutions.

Work also continues as well with geologists at NIU to characterize the geological rock features in northern Illinois.