Antarctic Science Symposium 2011

April 27, 2011 - April 28, 2011

Monona Terrace

Scientific Program

The completion of IceCube marks a major milestone in big science. Innovations and expertise in hot-water drilling made it possible to finish the project under budget and well within the planned time for completion. A number of auxiliary instruments such as a dust logger, microinclinometers, thermistors, an in-ice camera, and standard candles served valuable roles. Building on the success of IceCube, we seek to bring together scientists from diverse disciplines and drilling experts to participate in panel discussions designed to encourage brain-storming for future research in Antarctic ice. Panel participants include researchers studying the flow of low-temperature ice, sub-glacial lakes and ice streams, searching for life in Europa's ocean, searching for million-year-old ice, and searching for dark matter. The meeting provides a unique opportunity for interdisciplinary connections and new explorations at the end of the Earth. We have most of the speakers booked already, so if you want a talk considered, please email Ryan bay@berkeley.edu or Buford bprice@berkeley.edu before submitting an abstract. Thank you!

Opening Remarks

Price, Yeck

Innovations in Hot-Water Drilling

Benson, Elcheikh and Rack

Particle Astrophysics in Ice

Grant, Karle, Kowalski, Maruyama

Subglacial Lakes

Dachwald, Tulaczyk, Blankenship and Lipenkov

Logging and Remote Sensing

Bay, Matsuoka, Severinghaus

Ice Cores

Dahl-Jensen, Pattyn, Petit, Price, Mulvaney, Saltzman, White