

Donald D. Blankenship

INVITED LECTURES AND KEYNOTE ADDRESSES

- ICECAP: Ice and climate evolution of the Central Antarctic Plate. **Invited lecture.** *Sunday Science Lecture*, McMurdo Station, Antarctica, December 28, 2008.
- Beginning the Search for Life on the Outer Planets: Through Europa's Icy Looking Glass. **Invited lecture.** *Environmental Science Institute, Hot Science Cool Talks*, University of Texas, November 14th, 2008.
- Ice properties relevant to radar sounding of icy moons: Lessons from Earth applied to Europa. **Keynote address.** *Science of Solar System Ices: A Cross-Disciplinary Workshop*, Oxnard, California, May 5-8, 2008.
- Geological controls on the evolution of the Antarctic ice sheet. **Invited lecture.** *International Polar Year 2007-2008 Texas A&M Directed Study*, College Station, Texas, November 8, 2007.
- The distribution of Antarctic subglacial lake environments with implications for their origin and evolution. **Invited lecture.** *U.S. Committee on Principles of Environmental Stewardship for the Exploration and Study of Subglacial Environments*, National Academy of Sciences, Washington D.C., September 14, 2006.
- The distribution of Antarctic subglacial lake environments with implications for their origin and evolution. **Keynote address.** *Workshop on Subglacial Antarctic Lake Environments in the International Polar Year*, Grenoble, France, April 24-25, 2006.
- The exploration of Jupiter's icy moons. **Invited lecture.** *School of Geographical Sciences*, University of Bristol, United Kingdom, July 16, 2004.
- Earth's ice sheets and ice shelves as an analog for Europa's icy shell. **Keynote Address.** *Workshop on Europa's Icy Shell*, Houston, Texas, February 6-8, 2004.
- The influence of subglacial geology on ice streaming processes and ice stream evolution in West Antarctica. **Keynote address.** *International Symposium on Palaeo-Ice Streams*, Aarhus, Denmark, October 18, 2001.
- The evolution of the West Antarctic ice sheet; from global sea-level change to life on Jupiter's moons. **Keynote address.** *Compaq Executive Forum on High Performance Technical Computing*, Scottsdale, Arizona, April 2, 2001.
- Lithospheric controls on the evolution of the West Antarctic ice streams: An application of high-resolution airborne geophysics. **Invited lecture.** *Department of Earth Science*, University of California, Santa Cruz, January 16, 2001.
- SOAR Red Eyes: Aerogeophysics in Antarctica. **Invited lecture.** *South Pole Station, Antarctica*, December 12, 1998.

INVITED TALKS

- The subglacial Amundsen Sea Embayment: The view from aerogeophysics. **Invited talk.** *International Workshop on Amundsen Sea Embayment Tectonic and Climate Evolution*, Granada, Spain, September 9, 2009.

- Unveiling the Aurora Subglacial Basin, Antarctica: Initial findings of the first season of ICECAP. **Invited talk.** *First Antarctic Climate Evolution Symposium*, Granada, Spain, September 8, 2009.
- Investigating the cryospheric evolution of the central Antarctic plate (ICECAP): Aerogeophysical exploration of the Aurora Subglacial Basin and Totten Glacier. **Invited talk.** *International Workshop - Exploring Frontier Regions in East Antarctica During IPY and Beyond*, Cambridge University, United Kingdom, March 20, 2009.
- Investigating the cryospheric evolution of the central Antarctic plate: A long-range aerogeophysical survey of East Antarctica's subglacial basins. **Invited talk.** *Workshop on Geological and Geophysical Investigations from the Transantarctic Mountains to Dome C*, University of Genoa, Italy, September 26, 2008.
- Coupled ice, water and crustal systems beneath the West Antarctic ice sheet with implications for fast glacier flow and habitats. **Invited talk.** *Special Session on Subglacial Environments of Glaciers and Ice Sheets*, General Assembly of the European Geophysical Union, Vienna, Austria, April 13-18, 2008.
- Radar sounding of Europa's subsurface properties and processes. **Invited talk.** *Polar Gateways Arctic Circle Sunrise 2008, International Polar Year*, Pasadena, California and Barrow, Alaska, January 28, 2008.
- Radar imaging of Europa's subsurface properties and processes: The view from Earth. **Invited talk.** *Special Session on the Return to Europa*, San Francisco, California, December 7, 2007. [Blankenship, D.D., W.B. Moore, D.A. Young and M.E. Peters. *EOS*, vol. 88, no. 52, abstract P51E-04.].
- Understanding ice/water/earth dynamics through airborne characterization of subglacial environments. **Invited talk.** *Geoscience Research on Antarctic Subglacial Environments Workshop*, University of California, Santa Barbara, September 1, 2007.
- The detection and validation of sub-ice water systems through coupled airborne radar/lidar investigations. **Invited talk.** *Special Session on Terrestrial and Planetary Surface Processes from Lidar, Radar, and Imaging*, San Francisco, California, December 7, 2005. [Blankenship, D.D., M.E. Peters, D.L. Morse and D.A. Young. *EOS*, vol. 86, no. 52, abstract P33D-03.].
- Terrestrial radar sounding studies of thermal, compositional and structural interfaces analogous to those hypothesized for Europa's icy mantle. **Invited talk.** *Special session on Applications of Planetary Radars*, San Francisco, California, December 11, 2003. [Blankenship, D.D., M.E. Peters, D.L. Morse. *EOS*, vol. 84, no. 46, abstract P42B-07.].
- A science foundation for orbital subsurface radar sounding of Jupiter's icy moons. **Invited talk.** *Special Session on the Scientific Rationale for the Jupiter Icy Moons Orbiter Mission*, San Francisco, California, December 8, 2003. [Blankenship, D.D., D.P. Winebrenner, B.A. Campbell, R.T. Pappalardo, D.T. Sandwell. *EOS*, vol. 84, no. 46, abstract P11C-04.].
- Subsurface radar. **Invited talk.** *Forum on Concepts and Approaches for Jupiter Icy Moons Orbiter*, Houston, Texas, June 12-14, 2003.
- Investigating the crustal elements of the Antarctic Plate with airborne radar sounding. **Invited talk.** *Structure and Evolution of the Antarctic Plate (SEAP 2003) Workshop*, Boulder, Colorado, March 3-5, 2003.
- Investigating the crustal elements of the central Antarctic Plate (ICECAP): Long-range aerogeophysics as a foundation for access drilling in East Antarctica. **Invited talk.**

FASTDRILL 2002 Workshop: Interdisciplinary Polar Research Based on Fast Ice-Sheet Drilling. Santa Cruz, California, October 3-6, 2002.

- Structural and hydrogeological characterization of subglacial lithosphere from airborne radar sounding. **Invited talk**, *Remote Views and Exploration of Antarctic Lithosphere (REVEAL) Workshop*, Denver, Colorado, August 5-8, 2002.
- Other Lakes. **Invited talk**, *International Workshop on Lake Vostok*, Cambridge, U. K., September 26-28, 1999.
- Remote sensing projects and possibilities in Antarctica: Airborne systems. **Invited talk**, *NASA Workshop on the Next Decade of Antarctic Research*, Madison, Wisconsin, July 14-16, 1998.
- Antarctic applications of airborne ice penetrating radar. **Invited talk**, *Europa Radar Sounder Initiative Workshop*, Pasadena, California, April 27-29, 1998.
- Evolution of ice sheets and ice covered lithosphere from aerogeophysical and space based observations. **Invited talk**, *Symposium on Space-Based Geoscience Observations: Looking Down at the Future*, Austin, Texas, February 5-6, 1998.
- A technical overview of the Support Office for Aerogeophysical Research. **Invited talk**, *Workshop on Aerogeophysical Research Opportunities in Antarctica*, Arlington, Virginia, March 18-19, 1996.