

DONALD D. BLANKENSHIP

Curriculum Vitae

Institute for Geophysics, John A. and Katherine G. Jackson School of Geosciences, The University of Texas at Austin
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Education:

- 1989 Ph.D., University of Wisconsin-Madison (Geophysics), *Seismological Investigations of a West Antarctic Ice Stream*.
1982 M.S., University of Wisconsin-Madison (Geophysics), *Compressional Wave Anisotropy in the High Polar Ice of East Antarctica*.
1978 B.S. with High Honors, Eastern Illinois University (Geology).

Positions Held:

- 1996 - Present *Research Scientist*, Institute for Geophysics, the Jackson School of Geosciences, the University of Texas at Austin.
2006 *Lecturer*, Department of Geological Sciences, the Jackson School of Geosciences, the University of Texas at Austin.
2004 *Leverhulme Visiting Professor*, University of Bristol, United Kingdom.
1991 - 1996 *Research Associate*, Institute for Geophysics, the University of Texas at Austin.
1989 - 1991 *University Fellow / Research Associate*, Byrd Polar Research Center / Ohio Supercomputer Center, Ohio State University.
1978 - 1989 *Graduate Research Assistant / Assistant Researcher*, Geophysical and Polar Research Center, University of Wisconsin-Madison.
1978 - 1979 *Field Assistant*, US Geological Survey.

National/International Service: *Subglacial Lake Ellsworth Exploration* (Member of the Advisory Committee, 2009), *Joint NASA/ESA Mission to the Jupiter System* (Member of the Science Definition Team, 2008-Present); *NASA's Europa Explorer* (Member of the Science Definition Team, 2006–2007); *SCAR's Special Programme for Antarctic Climate Evolution* (Member of the Radio Echo Sounding Committee, 2005–2009); *The West Antarctic Ice-Sheet (WAIS) Initiative* (Member of the Steering Committee, 1991-Present); *NASA's Jupiter Icy Moons Orbiter – JIMO* (Member of the Science Definition Team, 2003-2005); *WAIS Initiative for the Amundsen Sea Embayment* (Member of the Working Group, 2000-2003); *NSF Facility for Aerogeophysical Research in Antarctica - SOAR* (Principal Investigator and Scientific Director, 1994-2002); *NASA's Europa Radar Sounder* (Chair of the Instrument Definition Team, 1998-1999); *NASA's Europa Orbiter* (Member of the Science Definition Team, 1998-1999); *SCAR Special Programme for Antarctic Offshore Acoustic Stratigraphy – ANTOSTRAT* (Member of the Steering Committee, 1990-1994),

Awards/Recognition: *Jackson Fellow*, (Jackson School of Geosciences, University of Texas, 2005/2006); *NASA Achievement Award* (for the Jupiter Icy Moons Orbiter Science Definition Team, 2005); *Leverhulme Fellow* (University of Bristol, 2004); *Blankenship Glacier*, (US Board of Geographic Names, 1994); *Top Fifty Science Stories* (Discover Magazine, 1993); *University Fellow*, (Ohio State University, 1989/1990); *Antarctic Service Medal* (US Navy, 1979).

Educational Activities: *Supervisor – Postdoctoral Research* (Duncan Young, 2005-2008; Lopamudra Roy, 2003). *Supervisor - Ph.D in Geophysics* (Bruce Frederick, Jamin Greenbaum, Katherine Huber, Eric Leuro and Dustin Schroeder, in progress; Theresa Diehl, 2008; Sasha Carter, 2008; and Irina Filina, 2007), *M.S. in Geophysics* (Hunter Danque, 2008). *Co-supervisor - M.S. in Geology* (Marcy Davis, 2001), *M.E. in Electrical Engineering* (Mahesh Rajagopalan, 1998) and *B.S. in Physics* (Jennifer Doebler, 2001). *Committee Member - Ph.D. in Geophysics* (Isaac Smith, in progress; Van Nuth and George Tsoflias, 1999) and *M.S. in Computer Science* (Laura Connor, 1999). *Member - Advisory Board for GLACIER* (Global Links: Antarctic Climate and Ice-sheet Evolution Research, an NSF middle-school educational initiative, 1996-1999). *Research Advisor – Grade 12 Science Apprentices* (twenty students largely from historically under-represented groups in science, 1992-2004).

Field Work: *Aurora Subglacial Basin and Totten Glacier, East Antarctica*, (airborne geophysics and radar sounding, 2008/09); *Amundsen Sea Embayment of the West Antarctic Ice Sheet*, (airborne geophysics and radar sounding, 2004); *West Antarctic Ice Streams and Ice Bergs* (airborne radar sounding, 2001); *Transantarctic Mountains and East Antarctic Subglacial Basins/Lakes*, (airborne geophysics and radar sounding: 1998, 1999 and 2000); *West Antarctic Ice Sheet and Rift System*, (airborne geophysics and radar sounding: 1990/91, 1991/92, 1992/93, 1994/95, 1995/96, 1996/97); *Kazakhstan USSR* (nuclear test monitoring, 1989); *West Antarctica Ice Streams* (seismic and airborne radar sounding: 1983/84, 1985/86 and 1987/88); *Dye III, Greenland Ice Sheet* (borehole geophysics, 1982); *Dome C, East Antarctic Ice Sheet* (seismic and potential-fields studies: 1978/79, 1979/80 and 1981/82).

Societies: American Geophysical Union, International Glaciological Society and the American Association for the Advancement of Science.

PUBLICATIONS - D.D. BLANKENSHIP

(In Review and In Press; Students and Post Doc's Underlined)

- Blankenship, D.D., D.A. Young, W.B. Moore and J.C. Moore. Radar Imaging of Europa's Subsurface Properties and Processes: The View from Earth. In *EUROPA*, , edited by Pappalardo, R.T., W. B. McKinnon, and K. Khurana, The University of Arizona Press (in press).
- Carter, S.P., D.D. Blankenship, D.A. Young, and J.W. Holt. Identifying the sources and distribution of subglacial water in radar sounding data. *Journal of Glaciology* (in press).
- Chen, J.L., C.R. Wilson, and D. Blankenship. Satellite gravity measurements show accelerated Antarctic ice loss across the entire continent. *Nature Geoscience*, (in review).
- Jordan, T.A., F. Ferraccioli, D.G. Vaughan, J.W. Holt, H.F. Corr, D.D. Blankenship and T.M Diehl. West Antarctic Rift System unveiled from aerogravity over the Pine Island Glacier Region. *GSA Bulletin*, (in review).

PUBLISHED PAPERS - D.D. BLANKENSHIP

(Students and Post Doc's Underlined; 1,908 WoS Citations; h-index = 22)

- Carter, S. P., D.D. Blankenship, D. A. Young, M. E. Peters, J. W. Holt, and M. J. Siegert, Dynamic distributed drainage implied by the flow evolution of the 1996-1998 Adventure Trench subglacial outburst flood , *Earth and Planetary Science Letters*, vol. 283, doi:10.1016/j.epsl.2009.03.019 , (2009).
- Joughin, I., S. Tulaczyk, J.L. Bamber,., D. D. Blankenship, J. W. Holt, T. Scambos and D.G. Vaughan. Basal conditions for Pine Island and Thwaites Glaciers, West Antarctica determined using satellites and airborne data. *Journal of Glaciology*, vol. 55, no. 190, pp. 245-257, doi:10.3189/002214309788608705, (2009).
- Chen, J.L., C.R. Wilson, B.D. Tapley, D. Blankenship and D. Young. Antarctic regional ice loss rates from GRACE. *Earth and Planetary Science Letters*, vol. 266, p. 140-148, doi: 10.1016/j.epsl.2007.10.057 (2008). (Citations: 4)
- Diehl, T.M., J.W. Holt, D.D. Blankenship, D.A. Young, T Jordan and F. Ferraccioli. First airborne gravity results over the Thwaites Glacier catchment, West Antarctica. *Geochemistry, Geophysics, Geosystems*, vol. 9, Q04011, doi:10.1029/2007GC001878, (2008). (Citations: 1)
- Filina, I.Y., D.D. Blankenship, M. Thoma, V.V. Lukin, V.N. Masolov and M.K. Sen. New 3D bathymetry and sediment distribution in Lake Vostok: Implication for pre-glacial origin and numerical modeling of the internal processes within the lake. *Earth and Planetary Science Letters*, vol 276, pp.106-114, doi:10.1016/j.epsl.2008.09.012, (2008)
- Peters, L.E., S. Anandakrishnan, C.W. Holland, H.J. Horgan, D.D. Blankenship and D.G. Voigt. Seismic Detection of a subglacial lake near the South Pole, Antarctic. *Geophysical Research Letters*, vol. 35, no.23, L23501, doi:10.1029/2008GL035704, (2008). (Citations: 1).
- Young, D. A., S. D. Kempf, D. D. Blankenship, J. W. Holt and D. L. Morse. New airborne laser altimetry over the Thwaites Glacier catchment, West Antarctica. *Geochemistry, Geophysics, Geosystems*, vol. 9, Q06006, doi:10.1029/2007GC001935 (2008).
- Carter, S.P., D.D. Blankenship, M.E. Peters, D.A. Young, J.W. Holt and D.L. Morse. Radar based Antarctic subglacial lake classification in Antarctica. *Geochemistry, Geophysics, Geosystems*, vol. 8, no. Q03016, 20p.,doi:10.1029/2006GC001408 (2007). (Citations: 3)
- Golynsky, A., D. Blankenship, M. Chiappini, D. Damaske, F. Ferraccioli, C. Finn, D. Golynsky, A. Goncharov, T. Ishihara, S. Ivanov, W. Jokat, H. Rae Kim, M. König, V. Masolov, Y. Nogi, M. Sand, M. Studinger, and the ADMAP Working Group. New magnetic anomaly map of East Antarctica and surrounding region. In Cooper A., C. Raymond and the ISAES editorial team (ed's.), *Antarctica: A Keystone in a Changing World*, U.S. Geological Survey and The National Academies, USGS OFR-2007-1047, short research paper 050, 5p., doi:10.3133/OFR2007-1047.srp050 (2007).
- Peters, M.E., D.D. Blankenship, S.P. Carter, S.D. Kempf, D.A. Young and J.W. Holt. Along-track focusing of airborne radar sounding data from West Antarctica for improving basal reflection analysis and layer detection. *IEEE Transactions on Geoscience and Remote Sensing* , vol. 45, no. 9, p. 2725-2736, doi:10.1109/TGRS.2007.897416 (2007). (Citations: 2)
- Peters, M.E., D.D. Blankenship, D.E. Smith, J.W. Holt and S.D. Kempf. The distribution and classification of bottom crevasses from radar sounding of a large tabular iceberg. *IEEE Geoscience and Remote Sensing Letters*, vol. 4, no.1, p.142-146, doi:10.1109/LGRS.2006.887057 (2007). (Citations: 2)
- Bingham, R.G., M.J. Siegert, D.A. Young and D.D. Blankenship. Organized flow from the South Pole to the Filchner-Ronne ice shelf: An assessment of balance velocities in interior East Antarctica using radio-echo sounding data. *Journal of Geophysical Research*, vol. 112, no. F03S27, doi: 10.1029/2006JF00056 (2007). (Citations: 1)

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- Filina, I., V. Lukin, V. Masolov and D. Blankenship. Unconsolidated sediments at the bottom of Lake Vostok from seismic data. In Cooper A., C. Raymond and the ISAES editorial team (ed's.), *Antarctica: A Keystone in a Changing World*, U.S. Geological Survey and The National Academies, USGS OFR-2007-1047, short research paper 031, 5p., doi:10.3133/OFR-2007-1047.srp031 (2007). (Google citations: 1)
- Vaughan, D.G., J.W. Holt and D.D. Blankenship. West Antarctic links to sea level estimation. *EOS Transactions of the American Geophysical Union*, vol. 88, no. 46, p. 485-486, (2007). (Google citations: 6)
- Filina, I., D.D. Blankenship, L. Roy, M. Sen, T. Richter and J. Holt. Inversion of airborne gravity data acquired over subglacial lakes in East Antarctica. In Futterer, D.K., D. Damaske, G. Kleinschmidt, H. Miller and F. Tessensohn, ed's. *Antarctica: Contributions to Global Earth Sciences*, Springer-Verlag, Berlin, Heidelberg and New York, p. 129-134 (2006). (Google citations: 3)
- Holt, J.W., D.D. Blankenship, D.L. Morse, D.A. Young, M.E. Peters, S.D. Kempf, T.G. Richter, D.G. Vaughan and H.F.J. Corr. New boundary conditions for the West Antarctic Ice Sheet: Subglacial topography beneath Thwaites and Smith glacier catchments. *Geophysical Research Letters*, vol.33, no. L09502, doi:10.1029/2005GL025561 (2006) (Citations: 18)
- Lawver, L.A., D.D. Blankenship and L.M. Gahagan. East Antarctica: Onshore-offshore uncertainties from cryospheric evolution. *Terra Antarctica*, vol. 12, p. 177-186 (2006).
- Chen, J.L., C.R. Wilson, D.D. Blankenship and B.D. Tapley, Antarctic mass rates from GRACE. *Geophysical Research Letters*, vol.33, no. L11502, doi:10.1029/2006GL026369 (2006). (Citations: 23)
- Holt, J.W., T.G. Richter, S.D. Kempf, D.L. Morse and D.D. Blankenship. Airborne gravity over Lake Vostok and adjacent highlands, East Antarctica. *Geochemistry, Geophysics, Geosystems*, vol. 7, no. Q11012, doi:10.1029/2005GC001177 (2006). (Citations: 2)
- Holt, J.W., M.E. Peters, D.L. Morse, D.D. Blankenship, L.E. Lindzey, J.L. Kavanaugh and K.M. Kuffey, Identifying and characterizing subsurface echoes in airborne radar sounding data from a high-clutter environment in Taylor Valley, Antarctica. *Proceedings of the 11th International Conference on Ground Penetrating Radar*, June 19-22, 2006, Columbus, Ohio, 5 pp (2006). (Google citations: 1)
- Holt, J.W., M.E. Peters, S.D. Kempf, D.L. Morse and D.D. Blankenship. Echo source discrimination in single-pass airborne radar sounding data from the Dry Valleys, Antarctica: Implications for orbital sounding of Mars. *Journal of Geophysical Research*, vol. 111, no. E06S24 (2006). (Citations: 3)
- Vaughan, D.G., H.F.J. Corr, F. Ferraccioli, N. Frearson, A. O'Hare, D. Mach, J.W. Holt, D.D. Blankenship, D.L. Morse and D.A. Young, New boundary conditions for the West Antarctic ice sheet: Subglacial topography beneath Pine Island Glacier. *Geophysical Research Letters* vol.33,no. L09501, doi:10.1029/2004F000202 (2006). (Citations: 22)
- Davis, M.B. and D.D. Blankenship. Geology of the Scott-Reedy Glaciers area, southern Transantarctic Mountains, Antarctica, *Map and Chart Series, The Geological Society of America*, MCH093 (2005).
- Peters, M.E., D.D. Blankenship and D.L. Morse. Analysis techniques for coherent airborne radar sounding: Application to West Antarctic ice streams. *Journal of Geophysical Research*, vol. 110, B06303, p. 1-17 (2005). (Citations: 18)
- Roy, L., M.K. Sen, D.D. Blankenship, P.L. Stoffa and T.G. Richter. 3-D inversion of airborne gravity over Lake Vostok, East Antarctica. *Geophysics*, vol. 70, no. 1, p. J1-J12 (2005). (Citations: 6)
- Siegert, M.J., S.P. Carter, I. Tabacco, S. Popov and D.D. Blankenship. A revised inventory of subglacial lakes. *Antarctic Science*, vol. 17, no. 3, p. 453-460 (2005). (Citations: 34)
- Seigert, M.J., B. Welch, D. Morse, A. Vieli, D.D. Blankenship, I. Joughin, E.C. King, G.J.M.C. Leysinger Vieli, A.J. Payne and R. Jacobel. Ice flow direction change in interior West Antarctica. *Science*, vol. 305, no. 5692, p. 1948-1951 (2004). (Citations: 7)
- Behrendt, J.C., D.D. Blankenship, D.L. Morse and R.E. Bell. Shallow-source aeromagnetic anomalies observed over the West Antarctic Ice Sheet compared with coincident bed topography from radar ice sounding-new evidence for glacial "removal" of subglacially erupted late Cenozoic rift-related volcanic edifices. *Global and Planetary Change*, vol. 42, p. 177-193 (2004). (Citations: 10)
- Tsoflias, G.P., J. Van Gestel, P.L. Stoffa, D.D. Blankenship and M. Sen. Vertical fracture detection by exploiting the polarization properties of ground-penetrating radar signals. *Geophysics*, vol. 69, no. 3, p. 803-810, (2004). (Citations: 10)
- Studinger, M., R.E. Bell, W.R. Buck G.D. Karner and D.D. Blankenship. Sub-ice geology inland of the Transantarctic Mountains in light of new aerogeophysical data. *Earth and Planetary Science Letters*, vol. 220, no. 3-4, p. 391-408, (2004). (Citations: 22)

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- Behrendt, J. C., D. D. Blankenship, D. L. Morse, C. A. Finn, R. E. Bell. Comparison of subglacial volcanic features beneath the West Antarctic ice sheet interpreted from aeromagnetic and radar ice sounding with similar, but more accessible, structures in Iceland. In Smellie, J.L. and M.G. Chapman (eds.), *Volcano-Ice Interaction on Earth and Mars*. Geological Society Special Publication 202, Geological Society Publishing House, Bath, U.K. 432 pp. (2002).
- Behrendt, J. C., D. D. Blankenship, D. L. Morse, R. E. Bell. Removal of subglacially erupted volcanic edifices beneath the divide of the West Antarctic ice sheet interpreted from aeromagnetic and radar ice sounding. In Gamble J.A., D.N.B Skinner, S. Henrys and R. Lynch, eds., *Antarctica at the Close of a Millennium*, Proceedings of the 8th International Symposium on Antarctic Earth Sciences, Royal Society of New Zealand Bulletin, vol. 35, p. 579-587 (2002). (Google citations: 3)
- Morse, D. L., D. D. Blankenship, E. D. Waddington and T. A. Neumann. A site for deep ice coring in West Antarctica: Results from aerogeophysical surveys and thermo-kinematic modeling. *Annals of Glaciology*, vol. 35, p. 36-44 (2002). (Citations: 14)
- Price S. F., R. A. Bindschadler, C. L. Hulbe and D. D. Blankenship. Force balance along an inland tributary and onset to ice stream D, West Antarctica. *Journal of Glaciology*, vol. 48, no. 160, p. 20-30 (2002). (Citations: 18)
- Studinger, M., R. E. Bell, C. A. Finn and D. D. Blankenship. Mesozoic and Cenozoic extensional tectonics of the West Antarctic rift system from high-resolution airborne geophysical mapping. In Gamble J.A., D.N.B Skinner, S. Henrys and R. Lynch, eds., *Antarctica at the Close of a Millennium*, Proceedings of the Eighth International Symposium on Antarctic Earth Sciences, Royal Society of New Zealand Bulletin, vol. 35, p. 563-569 (2002). (Google citations: 7)
- Blankenship, D. D., D. L. Morse, C. A. Finn, R. E. Bell, M. E. Peters, S. D. Kempf, S. M. Hodge, M. Studinger, J. C. Behrendt, and J. M. Brozena. Geological controls on the initiation of rapid basal motion for West Antarctic ice streams: A geophysical perspective including new airborne radar sounding and laser altimetry results. In Alley, R. B. and R. A. Bindschadler eds., *The West Antarctic Ice Sheet: Behavior and Environment*, American Geophysical Union, p. 105-121 (2001).
- Lythe, M. B., D. G. Vaughan and the BEDMAP Consortium. BEDMAP: a new ice thickness and subglacial topographic model of Antarctica. *Journal of Geophysical Research*, vol. 106, no. B6, p. 11335-11351 (2001). (Citations: 153)
- Richter, T. G., J. W. Holt, D. D. Blankenship. Airborne gravity over East Antarctica. *KIS 2001: Proceedings of the International Symposium on Kinematic Systems in Geodesy, Geomatics and Navigation*, Banff, Alberta, p. 576-585 (2001). (Google citations: 2)
- Studinger, M., R. E. Bell, D. D. Blankenship, C. A. Finn, R. A. Arko, D. L. Morse and I. Joughin. Subglacial sediments: A widespread geological template for ice flow in West Antarctica. *Geophysical Research Letters*, vol. 28, no. 18, p. 3493-3496 (2001). (Citations: 41)
- Bell, R. E., V. A. Childers, R. A. Arko, D. D. Blankenship, and J. M. Brozena. Airborne gravity and precise positioning for geologic applications. *Journal of Geophysical Research*, vol. 104, no. B7, p. 15,281-15,292 (1999). (Citations: 24)
- Sweeney, R. E., C. A. Finn, D. D. Blankenship, R. E. Bell and J. C. Behrendt. *Central West Antarctica aeromagnetic data: a web site for distribution of data and maps*. Open File Report 99-420, U. S. Geological Survey, (1999).
- Thorsteinsson, T., E. D. Waddington, K. C. Taylor, R. B. Alley and D. D. Blankenship. Strain-rate enhancement at Dye 3, Greenland. *Journal of Glaciology*, vol. 45, no. 150, p. 338-345 (1999). (Citations: 32)
- Anandakrishnan, S., D.D. Blankenship, R.B. Alley and P.L. Stoffa. Influence of subglacial geology on the position of a West Antarctic ice stream from seismic observations. *Nature*, vol. 394, no. 6688, p. 62-65 (1998). (Citations: 78)
- Bell, R.E., D.D. Blankenship, C.A. Finn, D.L. Morse, T.A. Scambos, J.M. Brozena and S.M. Hodge. Influence of subglacial geology on the onset of a West Antarctic ice stream from aerogeophysical observations. *Nature*, vol. 394, no. 6688, p. 58-62 (1998). (Citations: 82)
- Behrendt, J.C., C.A. Finn, D.D. Blankenship and R.E. Bell. Aeromagnetic evidence for a volcanic caldera(?) complex beneath the divide of the West Antarctic ice sheet. *Geophysical Research Letters*, vol. 25, no. 23, p. 4385-4388 (1998). (Citations: 12)
- Behrendt, J.C., D.D. Blankenship, D. Damaske, A.K. Cooper, C. Finn and R.E. Bell. Geophysical evidence for Late Cenozoic subglacial volcanism beneath the West Antarctic Ice Sheet and additional speculation as to its origin. In Rice, C.A., ed., *The Antarctic Region: Geological Evolution and Processes*, Terra Antarctica Publication, Siena, p. 539-546 (1997). (Google citations: 3)
- Behrendt, J.C., R. Saltus, D. Damaske, A. McCafferty, C.A. Finn, D.D. Blankenship and R.E. Bell. Patterns of late Cenozoic volcanic and tectonic activity in the West Antarctic rift system revealed by aeromagnetic surveys. *Tectonics*, vol. 15, no. 2, p. 660-676 (1996). (Citations: 40)
- Bindschadler, R., P. Vornberger, D. Blankenship, T. Scambos and R. Jacobel. Surface velocity and mass balance of ice streams D and E, West Antarctica. *Journal of Glaciology*, vol. 42, no. 142, p. 461-475 (1996). (Citations: 42)

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- Rooney, S.T., D.D. Blankenship, R.B. Alley and C.R. Bentley. Seismic reflection profiling of a sediment filled graben beneath ice stream B, West Antarctica. In Thomson, M.R.A., J.A. Crame and J.W. Thomson, eds., *Geological Evolution of Antarctica*, Cambridge University Press, Cambridge, p. 261-265 (1991). (Google citations: 8)
- Alley, R.B., D.D. Blankenship, S.T. Rooney and C.R. Bentley. Sedimentation beneath ice shelves-- the view from ice stream B. *Marine Geology*, vol. 85, p. 101-120 (1989). (Citations: 146)
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- Blankenship, D.D. and C.R. Bentley. The crystalline fabric of polar ice sheets inferred from seismic anisotropy. In Waddington, E.D. and J.S. Walder, eds., *The Physical Basis of Ice Sheet Modelling*, International Association of Hydrological Sciences Publication No. 170, p. 17-28 (1987). (Google citations: 2)
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- Alley, R.B., D.D. Blankenship, S.T. Rooney and C.R. Bentley. Continuous till deformation beneath ice sheets. In Waddington, E.D. and J.S. Walder, eds. *The Physical Basis of Ice Sheet Modelling*, International Association of Hydrological Sciences Publication No. 170, p. 81-91 (1987). (Google citations: 14)
- Rooney, S.T., D.D. Blankenship, C.R. Bentley and R.B. Alley. Till beneath ice stream B. 2. Structure and continuity. *Journal of Geophysical Research*, vol. 9, no. B9, p. 8913-8920 (1987). (Citations: 64)
- Rooney, S.T., D.D. Blankenship and C.R. Bentley. Seismic refraction measurements of crustal structure in West Antarctica. In McKenzie, G.D., eds., *Gondwana Six: Structure, Tectonics, and Geophysics*, Geophysical Monograph 40, American Geophysical Union, p. 1-8 (1987). (Google citations: 6)
- Bentley, C.R., S. Shabtaie, D.D. Blankenship, S.T. Rooney, D.G. Schultz, S. Anandakrishnan and R.B. Alley. Remote sensing of the Ross ice streams and the adjacent Ross Ice Shelf. *Annals of Glaciology*, vol. 9, p. 20-29 (1987). (Google citations: 4)
- Bentley, C.R., S. Shabtaie, D.D. Blankenship, R.B. Alley and S.T. Rooney. A few preliminary results from the glaciogeophysical survey of the interior Ross Embayment (GSIRE). In van der Veen, C.J. and J. Oerlemans, eds., *Dynamics of the West Antarctic Ice Sheet*, D. Reidel Publishing Co., p. 181-184 (1987).
- Blankenship, D.D., C.R. Bentley, S.T. Rooney and R.B. Alley. Seismic measurements reveal a saturated, porous layer beneath an active Antarctic ice stream. *Nature*, vol. 322, no. 6074, p. 54-57 (1986). (Citations: 141)
- Alley, R.B., D.D. Blankenship, C.R. Bentley and S.T. Rooney. Deformation of till beneath ice stream B, West Antarctica. *Nature*, vol. 322, no. 6074, p. 57-59 (1986). (Citations: 231)

INVITED LECTURES, TALKS AND KEYNOTE ADDRESSES - D.D. BLANKENSHIP

(Last 72 Months)

- 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.
- 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.
- 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.
- 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.
- 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.].
- 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.
- 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.
- Antarctic subglacial lake environments. **Invited lecture.** *The Center for Space Research, University of Texas at Austin*, Austin, Texas, April 10, 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 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.].
- 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. **Invited lecture,** *Workshop on Europa's Icy Shell*, Houston, Texas, February 6-8, 2004.
- 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.

INVITED LECTURES, TALKS AND KEYNOTE ADDRESSES - D.D. BLANKENSHIP

(Continued)

- 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.
- 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.
- Radar detection and characterization of water systems beneath terrestrial (and other) ice sheets. **Invited lecture**, *Department of Geological Sciences, University of Texas at Austin*, April 7, 2000.
- Other Lakes. **Invited talk**, *International Workshop on Lake Vostok*, Cambridge, U. K., September 26-28, 1999.
- SOAR Red Eyes: Aerogeophysics in Antarctica. Invited lecture, *South Pole Station, Antarctica*, December 12, 1998.
- 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.
- Airborne geophysics in West Antarctica: Do lithospheric characteristics control the evolution of the West Antarctic ice sheet? **Invited lecture**, *Lamont Doherty Earth Observatory, Columbia University, Palisades, New York*, May 3, 1994.
- Geophysics of the Interior Ross Embayment and Transantarctic Mountains boundary. **Invited talk**, *Workshop on the Geodynamic Evolution of the Transantarctic Mountains and the West Antarctic Rift: A Linked system*, Estes Park, Colorado, April 20-24, 1994. [Blankenship, D. D., R. E. Bell and C. A. Finn. In Wilson T. J. and C. A. Finn, eds., **Report No. 9**, Byrd Polar Research Center, Columbus, Ohio, p. 124 (1996)]
- Lithospheric controls on the dynamics of the West Antarctic ice sheet: an approach based on broad-spectrum aerogeophysics. **Invited lecture**, *Department of Geoscience, New Mexico Institute of Mining and Technology*, Socorro, New Mexico, March 31, 1994.
- Geological controls on the behavior of the West Antarctic ice sheet, **Invited lecture**, *Department of Geology and Geophysics, Rice University, Houston, Texas*, March 23, 1994.
- Airborne geophysical profiling: laser/radar altimetry and topographic mapping. **Invited talk**, *National Research Council Workshop on Airborne Geophysics*, Washington, D.C., July 12-14, 1993.
- Aerogeophysics in the Interior Ross Embayment of West Antarctica. **Invited talk**, *Workshop on the Crustal Structure of the Transantarctic Mountains and Adjacent Ross Sea Depression*, Trieste, Italy, June 3-5, 1993. [Blankenship, D. D., R. E. Bell and the CASERTZ Group. **Terra Antarctica**, vol. 1, no. 3, p. 507 – 508 (1994)]
- The depositional environment at the grounding zone of a contemporary Antarctic ice stream. **Invited talk**, *Special Session on Ice and the Sedimentary Record*, Baltimore, Maryland, May 27, 1993. [Blankenship, D. D.. **EOS**, vol. 75, no. 10, p. 102 (1993)]
- Airborne geophysics in West Antarctica. **Invited lecture**, *Department of Geology and Geophysics, Victoria University*, Wellington, New Zealand, February 3, 1993.
- Airborne measurement of ice sheet elevation. **Invited Talk**, *Special Session on Aerogeophysical Applications of Kinematic GPS*. San Francisco, California, December 10, 1992. [Blankenship, D. D., R. E. Bell and V.A. Childers. **EOS**, vol. 73, no. 43, p. 129 (1992)]
- The dynamics and depositional environment of ice stream B, West Antarctica from geophysical evidence. **Invited lecture**, *Department of Geology, University of Oslo*, Oslo, Norway, April 15, 1991.
- Glaciological influences on sedimentological processes in the Ross Embayment. **Invited talk**, *International Workshop on Antarctic Offshore Acoustic Stratigraphy (ANTOSTRAT)*, Pacific Grove, California, June 7-10, [Blankenship, D. D., R. B. Alley and S. T. Rooney. **Open File Report 90-309**, U. S. Geological Survey, p. 79-90 (1990)]
- The importance of solid earth geophysics on understanding the role of West Antarctica in global climate change. **Invited talk**, *Workshop on Sea Level Response to Ice-Sheet Evolution*, College Park, Maryland, January 23-25, 1990.
- Fast-moving glaciers of the West Antarctic: Do they link global change to global calamity? **Invited lecture**, *Autumn Quarter Lecture Series*, The Ohio State University, Columbus, Ohio, October 20, 1989.

INVITED AND CO-CONVENED WORKSHOPS AND PANELS - D.D. BLANKENSHIP

- Europa/Jupiter System Mission Science Definition Team Workshops (joint NASA/ESA)*, **Invited participant**, Potsdam, Germany, September, 17-18, 2009; Columbia, Maryland, July 13-14, 2009; Vienna, Austria, April 20-21, 2009; Woodlands, Texas, March 25, 2009; Pasadena, California, December 10-11, 2008; Columbia, Maryland, August 13-14, 2008; Rome, Italy, April 23-25, 2008; Monrovia, California, March 26-28, May 29-30, 2008; Pasadena, California, February 28-29, July 14-16, 2008.
- National Astrobiology Institute Selection Panel (NASA)*, **Co-chair**, St. Louis, Missouri, July 8-11, 2008.
- International Symposium on Radioglaciology and its Applications*, **Co-convenor**, Madrid, Spain, June 9-13, 2008.
- Special Session on Ice Sheets, Climate Evolution and Geology, Fall Meeting of the American Geophysical Union*, **Co-convenor**, San Francisco, California, December 13, 2007.
- Setting a Course for Antarctic Integrated and Systems Science: A Workshop*, **Invited participant**, Office of Polar Programs, National Science Foundation, (sponsor), Arlington, Virginia, June 13-15, 2007.
- Europa Explorer Science Definition Team Workshops(NASA)*, **Invited participant**, Boston, Massachusetts, May 3-4, 2007; Pasadena, California, February 19-21, March 7-9, April 4-6, October 16-17, 2007.
- Meeting of NASA's Outer Planets Assessment Group*, **Invited participant**, Boston, Massachusetts, May 1-2, 2007. U.K.
- Workshop on West Antarctic Links to Sea-level Estimation*, **Co-convenor**, U.K. Foreign Office and Jackson School of Geosciences (sponsors), Jackson School of Geosciences, Austin Texas, March 26-28, 2007.
- Workshop on High Capability Orbital Radar Sounding*, **Invited participant**, Jet Propulsion Laboratory, Pasadena, California, November 11, 2005.
- Workshop on Geoscientific Insights for Greater Antarctica: Gamburtsev Mountains, Amery Ice Shelf to Prydz Bay (GIGAGAP)*, **Invited participant**, Hanover, Germany, June 20-22, 2005.
- Special Session on Radio Echo Sounding of Glaciers and Ice Sheets, Fall Meeting of the American Geophysical Union*, **Co-convenor**, San Francisco, California, December 13-18, 2004.
- Forum on Outer Planetary Exploration*, **Co-convenor**, Pasadena, California, June 21-22, 2004.
- Jupiter Icy Moons Orbiter Science Definition Team Workshops*, **Invited participant**, Washington D.C., December 8-9; 2004; Burbank, California, May 12-13, 2004; Pasadena, California, December 17-18, 2003; Washington, D.C., November 12-13, 2003; Pasadena, California, September 8-9, 2003; Pasadena, California, August 14-15, 2003; Arcadia, California, March 10-11, 2003.
- Forum on Innovative Approaches to Outer Planetary Exploration 2001-2020*, **Co-convenor**, Houston, Texas, February 21-23, 2001.

THESES/DISSERTATIONS SUPERVISED - D.D. BLANKENSHIP

- Theresa M. Diehl. *Gravity Analysis for the Crustal Structure and Subglacial Geology of West Antarctica, Particularly Beneath Thwaites Glacier*. Ph.D. Thesis, the Department of Geological Sciences, Jackson School of Geosciences, the University of Texas at Austin (Fall, 2008).
- Sasha P. Carter. *East Antarctic Subglacial Lakes: Recharge, Flow Paths and the Case for Hydraulic Interconnection/Isolation*. Ph.D. Thesis, the Department of Geological Sciences, Jackson School of Geosciences, the University of Texas at Austin (Spring, 2008).
- Hunter A. Danque. *West Antarctic Subglacial Volcanoes Defined by Aerogeophysical Data and the Potential for Associated Hydrothermal Systems*. M.Sc. Thesis, the Department of Geological Sciences, Jackson School of Geosciences, the University of Texas at Austin (Spring, 2008).
- Irina Y. Filina. *Geophysical Investigations of Subglacial Lakes Vostok and Concordia, East Antarctica*. Ph.D. Thesis, the Department of Geological Sciences, Jackson School of Geosciences, the University of Texas at Austin, 118p. (Fall, 2007).
- Marcy B. Davis. *Subglacial Morphology and Structural Geology in the Southern Transantarctic Mountains from Airborne Geophysics*. M.Sc. Thesis, the Department of Geological Sciences, Jackson School of Geosciences, the University of Texas at Austin, 133p. (2001).
- Jennifer A. Doebbler. *A Model for the Dielectric Absorption of the West Antarctic Ice Sheet at Radar Sounding Frequencies*. B.Sc. Honors Thesis, the Department of Physics, the University of Texas at Austin, 40p. (2001).
- Mahesh Rajagopalan. *An Image Processing Approach to Migration for Point Diffractors*. M.S.E. Thesis, the Department of Electrical Engineering, the University of Texas at Austin, 57p. (1998).

RECENT CONTRIBUTIONS AT PROFESSIONAL MEETINGS

- Carter, S.P., H.A. Fricker, and D.D. Blankenship. Towards an observation-based deterministic model for water motion beneath the Antarctic ice sheet interior. *Annual Meeting of the European Geophysical Union*, Vienna, April, 2009. [*Geophysical Research Abstracts*, vol. 8, abstract EGU09- 13304, (2009)].
- Carter, S.P., D.D. Blankenship and D.A. Young. Radar echo sounding data driving a model for subglacial water transport from the Dome C Lakes to the onset(s) of fast glacier flow. *Fall Meeting of the American Geophysical Union*, San Francisco, December, 2008. [*EOS*, vol. 89, no. 53, abstract C31C-0507, 2008].
- Joughin, I, J. Bamber, D. Blankenship, J. Holt, T. Scambos, D. Vaughan and S. Tulaczyk. Invited talk. Basal conditions for Pine Island and Thwaites Glaciers determined using satellite and airborne data. *Fall Meeting of the American Geophysical Union*, San Francisco, December, 2008. [*EOS*, vol. 89, no. 53, abstract C42A-01, 2008].
- Blankenship, D.D., I.Y. Filina, D.A. Young, H.A. Danque and M.E. Peters. Antarctic ice sheet from aerogeophysical observations with implications for fast glacier flow and habitats. *Fall Meeting of the American Geophysical Union*, San Francisco, December, 2007. [*EOS*, vol. 88, no. 52, abstract C41C-02, (2007)].
- Carter, S.P., D.D. Blankenship, D.A. Young and J.W. Holt. Ice flow history, basal melt and hydraulic connections in the Dome C lake district headwaters over the last glacial cycle inferred from hypopotential, internal layers and basal reflectivity in airborne radar sounding data. *Fall Meeting of the American Geophysical Union*, San Francisco, December, 2007. [*EOS*, vol. 88, no. 52, abstract C41B-0477, (2007)].
- Diehl, T.M., D.D. Blankenship, T.A. Jordan and D.A. Young. Crustal and lithospheric structural controls on Thwaites Glacier, West Antarctica. *Fall Meeting of the American Geophysical Union*, San Francisco, December, 2007. [*EOS*, vol. 88, no. 52, abstract C41C-04, (2007)].
- Leuro, E., D.D. Blankenship and D.A. Young. Estimation of accumulation rates on the catchment of Thwaites Glacier, West Antarctica. *Fall Meeting of the American Geophysical Union*, San Francisco, December, 2007. [*EOS*, vol. 88, no. 52, abstract C51B-0385, (2007)].
- Young, D.A., D.D. Blankenship, J.W. Holt and S.D. Kempf. Basal heterogeneity of Thwaites Glacier, Antarctica: Results from advanced ice penetrating radar data. *Fall Meeting of the American Geophysical Union*, San Francisco, December, 2007. [*EOS*, vol. 88, no. 52, abstract C51A-0077, (2007)].
- Behrendt, J.C., C.A. Finn and D.D. Blankenship. Question of ages of Cenozoic volcanic centers inferred beneath the West Antarctic Ice Sheet (WAIS) in the West Antarctic Rift System (WR) from coincident aeromagnetic and radar ice sounding surveys. *Fall Meeting of the American Geophysical Union*, San Francisco, December, 2007. [*EOS*, vol. 88, no. 52, abstract C51A-0068, (2007)].
- Ferraccioli, F., J.W. Holt, D.G. Vaughan, T. Diehl, D. Blankenship, H. Corr, M. James and D. Fairhead. Invited. Exploring the weak underbelly of the West Antarctic ice sheet with recent aerogeophysical data. *Fall Meeting of the American Geophysical Union*, San Francisco, December, 2007. [*EOS*, vol. 88, no. 52, abstract C51B-0388, (2007)].
- Jordan, T.A., F. Ferraccioli, J.W. Holt, T.M. Diehl, H.F. Corr, D.D. Blankenship and D.G. Vaughan. Crustal thinning and low lithospheric rigidity revealed beneath the catchment of Pine Island Glacier: Implications for the West Antarctic ice sheet. *Fall Meeting of the American Geophysical Union*, San Francisco, December, 2007. [*EOS*, vol. 88, no. 52, abstract C51A-0078, (2007)].
- Blankenship, D.D., M.E. Peters, D.A. Young and J.W. Holt. Radar sounding of Europa's icy shell: the view after new results from Mars and Antarctica. *38th Lunar and Planetary Science Conference*, Houston, Texas, March 12-16, 2007. [abstract 2409, Lunar and Planetary Institute, 2p. (2007)].
- Joughin, I; J. Bamber, D. Vaughan, J. Holt, D. Blankenship, D. MacAyeal. Basal shear stress for Pine Island and Thwaites glaciers, Antarctica (invited). *Annual Meeting of the European Geophysical Union*, Vienna, April, 2007. [*Geophysical Research Abstracts*, vol. 8, abstract EGU07-A-04566, (2007)].
- Blankenship, D.D., J.M. Brozena, M.J. Siegert and the ICECAP team. Investigating the cryospheric evolution of the Central Antarctic Plate (ICECAP): Internationally coordinated long-range aerogeophysics over Dome A, Dome C and the Aurora Subglacial Basin of East Antarctica. *Annual Meeting of the European Geophysical Union*, Vienna, April, 2006 [*Geophysical Research Abstracts*, vol. 8, abstract EGU06-A-09894, (2006)].
- Blankenship, D.D., D.A. Young, and S.P. Carter. The distribution of Antarctic subglacial lake environments with implications for their origin and evolution. *Fall Meeting of the American Geophysical Union*, San Francisco, December, 2006. [*EOS*, vol. 87, no. 52, abstract C54A-01, 2006].
- Carter, S.P., D.D. Blankenship, M.E. Peters and D.A. Young. Reflection classification of subglacial lakes. *Fall Meeting of the American Geophysical Union*, San Francisco, December, 2006. [*EOS*, vol. 87, no. 52, abstract C31A-1246, (2006)].

RECENT CONTRIBUTIONS AT PROFESSIONAL MEETINGS

(Continued)

- Diehl, T.M., D.D. Blankenship and J.W. Holt. Subglacial geology of the Thwaites Glacier catchment, West Antarctica: Airborne gravity reduction and inversion. *Fall Meeting of the American Geophysical Union*, San Francisco, December, 2006. [*EOS*, vol. 87, no. 52, abstract C51C-06, (2006)].
- Filina, I., D. Blankenship and D. Young. The crustal structure beneath the onset region of Kamb Ice Stream, West Antarctica, from joint interpretation of airborne gravity and magnetic data. *Fall Meeting of the American Geophysical Union*, San Francisco, December, 2006. [*EOS*, vol. 87, no. 52, abstract C11A-1126, (2006)].
- Holt, J.W., D.D. Blankenship, M.E. Peters, D.G. Vaughan and H.F. Corr. A new model for conducting large-scale aerogeophysical studies in Antarctica through international collaboration. *Fall Meeting of the American Geophysical Union*, San Francisco, December, 2006. [*EOS*, vol. 87, no. 52, abstract C53B-06, (2006)].
- Young, D.A., D.D. Blankenship and M.E. Peters. Sub-kilometer scale basal roughness of the Siple Coast Ice Streams, West Antarctic Ice Sheet. *Fall Meeting of the American Geophysical Union*, San Francisco, December, 2006. [*EOS*, vol. 87, no. 52, abstract C41A-0294, (2006)].
- Young, D.A., D.D. Blankenship, J.W. Holt, D.L. Morse, E. Leuro, SD. Kempf and M.E. Peters. Surface state of Thwaites Glacier and implications for its stress state from airborne laser altimetry and radar sounding. *Fall Meeting of the American Geophysical Union*, San Francisco, December, 2006. [*Geophysical Research Abstracts*, vol. 8, abstract EGU06-A-09866, (2006)].
- Behrendt, J.C., C.A. Finn and D.D. Blankenship. Examples of models fit to magnetic anomalies observed over subaerial, submarine, and subglacial volcanoes in the West Antarctic rift system. *Fall Meeting of the American Geophysical Union*, San Francisco, December, 2006. [*EOS*, vol. 87, no. 52, abstract V44A-02, (2006)].
- Blankenship D.D., D. A. Young, M. E. Peters, S. D. Kempf, D. Smith, L. Lindzey, K. Carver and J. W. Holt. Monitoring Iceberg B15a with airborne radar sounding. *Fall Meeting of the American Geophysical Union*, San Francisco, December, 2005. [*EOS*, vol. 86, no. 52, abstract C12B – 06, (2005)].
- Carter, S.P., D. D. Blankenship and M. E. Peters. Great lakes, cold lakes, and fuzzy lakes: An algorithm for characterizing diverse water environments beneath the East Antarctic ice sheet. *Fall Meeting of the American Geophysical Union*, San Francisco, December, 2005. [*EOS*, vol. 86, no. 52, abstract C13B-1074, (2005)].
- Holt, J.W., D. D. Blankenship, D. L. Morse, D. A. Young and D. G. Vaughan. New boundary conditions for ice sheet modeling of the Thwaites Glacier catchment from a multi-instrumented airborne geophysical survey of the Amundsen Sea Embayment, West Antarctica. *Fall Meeting of the American Geophysical Union*, San Francisco, December, 2005. [*EOS*, vol. 86, no. 52, abstract C21B-1096, (2005)].
- Peters, M.E., D. D. Blankenship, J. W. Holt, D. L. Morse and D. A. Young. Airborne radar sounding: A survey of the Thwaites Glacier Catchment of the Amundsen Sea Embayment, West Antarctica. *Fall Meeting of the American Geophysical Union*, San Francisco, December, 2005. [*EOS*, vol. 86, no. 52, abstract U23C-06, (2005)].
- Young, D.A., D. D. Blankenship, D. G. Vaughan and J. W. Holt. Buoyancy distribution around ice sheet grounding zones in the Western Amundsen Sea Embayment, Antarctica: Results from the AGASEA survey. *Fall Meeting of the American Geophysical Union*, San Francisco, December, 2005. [*EOS*, vol. 86, no. 52, abstract C43A-04, (2005)].
- Behrendt, J.C., C. A. Finn, D. L. Morse and D. D. Blankenship. Negative magnetic anomalies observed in the central West Antarctica (CWA) aerogeophysical survey over the West Antarctic Ice Sheet (WAIS), whose sources are volcanic centers (e.g. Mt Resnik) at the base of the ice. *Fall Meeting of the American Geophysical Union*, San Francisco, December, 2005. [*EOS*, vol. 86, no. 52, abstract V13D-0570, (2005)].
- Bingham, R.G., M. J. Siegert and D. D. Blankenship. Fast flow from the South Pole to Support Force Glacier. *Fall Meeting of the American Geophysical Union*, San Francisco, December, 2005. [*EOS*, vol. 86, no. 52, abstract C43A-07, (2005)].
- Diehl, T.M., J. W. Holt, D. D. Blankenship, T. G. Richter and I. Y. Filina. Comparison of new airborne gravity results and GRACE anomalies in the Thwaites Glacier catchment of the Amundsen Sea Embayment, West Antarctica. *Fall Meeting of the American Geophysical Union*, San Francisco, December, 2005. [*EOS*, vol. 86, no. 52, abstract G33A-0022, (2005)].
- Holt, J.M., M. E. Peters, S. D. Kempf, D. L. Morse and D. D. Blankenship. Challenges to airborne and orbital radar sounding in the presence of surface clutter: Lessons learned (so far) from the Dry Valleys of Antarctica. *Fall Meeting of the American Geophysical Union*, San Francisco, December, 2005. [*EOS*, vol. 86, no. 52, abstract P31C-0213, (2005)].
- Blankenship, D.D., J.M. Brozena, M.J. Seigert, D.L. Morse, I.W. Dalziel, L.A. Lawver, J.W. Holt, V.A. Childers, J.L. Bamber, A.J. Payne (2004). Investigating the crustal elements of the central Antarctic Plate (ICECAP): How long-range aerogeophysics is critical to understanding the evolution of the East Antarctic ice sheet. *Fall Meeting of the American Geophysical Union*, San Francisco, December, 2004. [*EOS*, vol. 85, no. 47, abstract C21A-0973, (2004)].
- Peters, L.E., S. Anandkrishnan, R. B. Alley, J. P. Winberry, D. D. Blankenship, D. L. Morse, A. M. Smith, E. C. King (2004). The Influence of a Subglacial Dilatant Till Beneath the Upstream Reaches of Bindschadler Ice Stream: Implications for Streaming Ice Flow. *Fall Meeting of the American Geophysical Union*, San Francisco, December, 2004. [*EOS*, vol. 85, no. 47, abstract C33D-04, (2004)].

RECENT CONTRIBUTIONS AT PROFESSIONAL MEETINGS

(Continued)

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MAJOR REPORTS - D.D. BLANKENSHIP

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Europa/Jupiter-System Mission Science Definition Team, *Europa Jupiter System Mission Joint Study Report*. Jet Propulsion Laboratory, <http://opfm.jpl.gov/library>. 39 pp., January 16, 2009.

Europa Explorer Science Definition Team. *2007 Europa Explorer Mission Study: Final Report*. The Jet Propulsion Laboratory, 168pp.. (2007).

Strategic Planning Committee for the Jackson School of Geosciences. *Changing the World of Geosciences: Jackson School of Geosciences Strategic Plan 2007-2010*, The University of Texas at Austin, 43pp. (2007).

Implementation Committee for the Jackson School of Geosciences. *Organizational Charter for the John A. and Katherine G. Jackson School of Geosciences*. The University of Texas at Austin, 9pp. (2005).

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Amos, D.H. and D.D. Blankenship. *Geological Map of the Advance Quadrangle, Missouri*. Miscellaneous Field Studies Map MF-1197, U.S. Geological Survey (1980).

FIELD WORK - D.D. BLANKENSHIP

- Casey Station, Antarctica*. Investigating the cryospheric evolution of the central Antarctic plate (ICECAP), **Principal Investigator**, January - February, 2009.
- McMurdo Station, Antarctica*. Investigating the cryospheric evolution of the central Antarctic plate (ICECAP), **Principal Investigator**, December, 2008 – January, 2009.
- McMurdo Station, Antarctica*. Airborne geophysical Survey of the Amundsen Sea Embayment, Antarctica (AGASEA), **Co-Principal Investigator**, November-December, 2004.
- McMurdo Station and Ice Stream D, West Antarctica*. Characterization of the Onset of Ice Stream Flow: A Ground Geophysical Program, **Principal Investigator**; Advanced Technology for Radar Sounding of Polar Ice (ATRS), **Co-Principal Investigator**; November-December 2001.
- McMurdo Station, Antarctica*. SOAR Field Program, **Principal Investigator** November 1999 and January 2000.
- South Pole Station, Antarctica*. SOAR Field Program, **Principal Investigator**, November-December 1998.
- Siple Dome, West Antarctica*. SOAR Field Programs, **Principal Investigator**, November-December 1996 and November-December 1997.
- Byrd Station, West Antarctica*. SOAR Field Programs, **Principal Investigator**, December 1994-February 1995 and December 1995-January 1996.
- Central West Antarctica*. Corridor Aerogeophysics of the Southeastern Ross Transect Zone, **Principal Investigator**, October 1991-January 1992 and December 1992-February 1993.
- McMurdo Station and Central West Antarctica*. Corridor Aerogeophysics of the Southeastern Ross Transect Zone, **Principal Investigator**, November 1990-January 1991.
- Kazakhstan, USSR*. US-USSR Joint Verification Program, Soviet Academy of Sciences, **Team Member**, September 1989.
- Ice Stream B, West Antarctica*. Glaciogeophysical Survey of the Interior Ross Embayment, **Co-Principal Investigator and Team Leader**, November 1987-January 1988.
- Ice Stream B, West Antarctica*. Glaciogeophysical Survey of the Interior Ross Embayment, **Team Leader**, November 1983-January 1984 and November 1985-January 1986.
- Dye III, Southern Greenland*. Borehole Logging for the Greenland Ice Sheet Project, **Team Member**, July 1982.
- Dome C, East Antarctica*. Geophysical Survey for the International Antarctic Glaciological Project, **Team Member**, November 1981-January 1982, November 1978-January 1979 and November 1979-January 1980.
- Kentucky, Illinois and Missouri*. National Uranium Resource Evaluation, U.S. Geological Survey, **Field Assistant**, June-September 1978.
- Wind River Range, Wyoming*. Eastern Illinois University, **Independent Glaciological Research**, August 1977.
- South Dakota and Wyoming*. Eastern Illinois University, **Geology Field Camp**, June-July 1977.

FIELD REPORTS – D.D. BLANKENSHIP

- Holt, J. W., S. L. Magsino, M. E. Peters, S. D. Kempf, R. R. Biggs, D. D. Blankenship, and R. E. Bell. *SOAR (Support Office for Aerogeophysical Research): Annual Report, 1998/99*. UTIG Technical Report 185, The University of Texas at Austin, 117 pp. (1999).
- Magsino, S. L., D. D. Blankenship and R. E. Bell. *SOAR (Support Office for Aerogeophysical Research): Annual Report, 1997/98*. UTIG Technical Report, The University of Texas at Austin, 102 pp. (1998).
- Richter, T. G., J. L. Williams, D. D. Blankenship and R. E. Bell. *SOAR (Support Office for Aerogeophysical Research): Annual Report, 1996/97*. UTIG Technical Report 173, The University of Texas at Austin, 100 pp. (1997).
- Sen, V., P.L. Stoffa, D.D. Blankenship and I.W.D. Dalziel. Results From the ANTALITH Field Tests: A Pilot Program for Seismic Investigation in Central West Antarctica. UTIG Technical Report 172, 29 pp. (1997).
- Richter, T. G., J. L. Williams, D. D. Blankenship and R. E. Bell. *SOAR (Support Office for Aerogeophysical Research): Annual Report, 1995/96*. UTIG Technical Report 149, The University of Texas at Austin, 80 pp. (1996).
- Richter, T.G., J.L. Williams, D.D. Blankenship and R.E. Bell. Field activities of the Support Office for Aerogeophysical Research (SOAR) 1994-1996. *Antarctic Journal of the United States*, vol. 31, no. 2, p. 263-265 (1996).
- Blankenship, D. D., R. E. Bell and K. A. Najmulski. *SOAR (Support Office for Aerogeophysical Research): Annual Report, 1994-95*. UTIG Technical Report 146, The University of Texas at Austin, 70 pp. (1995).
- Anandakrishnan, S., A. Smith, S. Saustrop, V. Sen, I.W.D. Dalziel, P.L. Stoffa and D.D. Blankenship. ANTALITH seismic reflection profile in West Antarctica. *Antarctic Journal of the United States*, vol. 30, no. 5, p. 20-21 (1995).

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- Brozena, J.M., J.L. Jarvis, R.E. Bell, D.D. Blankenship, S.M. Hodge and J.C. Behrendt. CASERTZ 91 - 92: Airborne gravity and surface topography measurement. *Antarctic Journal of the United States*, vol. 20, no. 5, p. 1-3 (1993).

CONTRACTS AND GRANTS – D.D. BLANKENSHIP

— FUNDED —

NASA Cryospheric Science	“East Antarctic Surface Elevation Observations for Operation ICE Bridge” / <u>D. Blankenship</u>	\$1,247,735	Sep. 09 – Aug. 10
NSF Advanced Research Computing	“Dynamics of Ice Sheets: Advanced Simulation Models, Large-Scale Data Inversion, and Quantification of Uncertainty in Sea Level Rise Projections” / Ghattas, <u>D. Blankenship</u> , G. Catania, C. Jackson and L. Lavier.	\$2,002,463	Sep. 09 – Aug. 13
UK Natural Environment Research Council via University of Edinburgh	“Ice and Climate Evolution of the Central Antarctic Plate” / <u>D. Blankenship</u>	\$1,629,711	Oct. 08 – Feb. 12
Australian Antarctic Division	“IPY Research: Investigating the Cryospheric Evolution of the Central Antarctic Plate (ICECAP)” / <u>D. Blankenship</u>	\$106,500	Oct. 08 – Feb. 12
NSF Polar Programs	“IPY Research: Investigating the Cryospheric Evolution of the Central Antarctic Plate (ICECAP)” / <u>D. Blankenship</u> , J. Holt, I. Dalziel and L. Lawver	\$698,183	Sep. 08 – Sep. 11
NSF Polar Programs	“Ice-Flow History of Thwaites Glacier Antarctica” / G. Catania and <u>D. Blankenship</u> .	\$416,359	Jul. 08 – Jun 11
NASA Cryospheric Science	“Subglacial Context for Surface Elevation Change in the Antarctic Interior” / <u>D. Blankenship</u> , T. Urban and R. Schutz	\$550,247	Jul. 08 – Jun. 11
NASA Mars Fundamental Research	“Establishing Multi-frequency Radar Sounding Analogs for Ice on Mars” / J. Holt and <u>D. Blankenship</u> .	\$318,863	May. 08 – Aug. 10
US Army Corps of Engineers	“Integrated Aerogeophysical Studies of the Hubbard Glacier System, Alaska in support of catastrophic flood risk assessment” / J. Holt and <u>D. Blankenship</u>	\$74,697	Mar. 08 – Aug. 08
NSF Polar Programs	“IPY- Investigation of Antarctic Ice Sheet Mass Balance From Satellite Gravity Measurements” / J. Chen, B. Tapley, C Wilson and <u>D. Blankenship</u>	\$430,000	Sep. 07 – Aug. 10
NSF Polar Programs	“Synthesis of Thwaites Glacier Dynamics: Diagnostic and Prognostic Sensitivity Studies of a West Antarctic Outlet System” / <u>D.D. Blankenship</u> and J.W. Holt	\$191,058	Apr. 07 – Mar. 10
NSF Polar Programs	“Airborne Geophysical Survey of the Amundsen Sea Embayment, Antarctica (AGASEA)” / J.W. Holt and <u>D.D. Blankenship</u>	\$1,535,539	Sep. 03 – Aug. 08
NSF Polar Programs	“Dynamics and Response of the Taylor Glacier System” / D.L. Morse and <u>D.D. Blankenship</u>	\$84,235	Aug. 02 – Jul. 06
NSF Polar Programs	“WAISCORES Western Divide Site Selection” / D.L. Morse and <u>D.D. Blankenship</u>	\$61,635	Jul. 02 – Jun. 06
NASA Space Science	“Terrestrial Analogs of Martian Radar Targets from the Dry Valleys, Antarctica” / J.W. Holt and <u>D.D. Blankenship</u>	\$199,811	Jan. 03–Dec. 05
NSF Polar Programs	“Characterizing the Onset of Ice Stream Flow: A Ground Geophysical Program” / <u>D.D. Blankenship</u> and D.L. Morse	\$395,970	Sep. 00 – Aug. 05

NSF Polar Programs	“Advanced Technology for Radar Sounding of Polar Ice” / D. L. Morse and <u>D.D. Blankenship</u>	\$563,429	Sept. 01 – Aug. 03
NSF Polar Programs	“Continuation of Activities for the Support Office for Aerogeophysical Research”/ <u>D.D. Blankenship</u> , D. L. Morse and I. W. D. Dalziel (with J. W. Holt)	\$1,566,178	Sep. 00 – Aug. 02
NSF Polar Programs	“Collaborative Research: Contrasting Architecture and Dynamics of the Transantarctic Mountains” / <u>D.D. Blankenship</u>	\$ 249,102	Jul. 97 – Jun. 02
NSF Polar Programs	“WAIS (West Antarctic Ice Sheet) Ice Divide Migration” / <u>D.D. Blankenship</u> and D.L. Morse	\$157,434	May 98 – Apr. 02
NASA Earth Science	“Characterizing the Siple Coast Ice Stream System Using Satellite Images, Improved Topography and Integrated Aerogeophysical Measurements” / <u>D.D. Blankenship</u> and D.L. Morse	\$82,341	Jan. 99 – Dec. 01
NSF Polar Programs	“Support Office for Aerogeophysical Research.” / <u>D.D. Blankenship</u>	\$ 5,932,266	Aug. 94 – Jan. 01
NSF Polar Programs	“Collaborative proposal with University of Washington and University of Texas: WAISCORE site selection.” / <u>D.D. Blankenship</u> (with D.L. Morse)	\$ 148,422	Jun. 97 - May 00
Jet Propulsion Laboratory	“Algorithm Development for Coherent Ice-Penetrating Radar Applicable to Antarctic Basal Characterization and Europa Water Detection” / <u>D.D. Blankenship</u>	\$39,539	Jul. 98 – Oct. 99
NSF Polar Programs	“Lithospheric Controls on the Behavior of the West Antarctic Ice Sheet: Corridor Aerogeophysics of the Eastern Ross Transect Zone (CASERTZ/WAIS).” / <u>D.D. Blankenship</u>	\$ 658,493	Aug. 94 – Jul. 99
NSF Polar Programs	“Seismic Traverse of the Byrd Subglacial Basin - A Field Test.” / I.W.D. Dalziel, P.L. Stoffa and <u>D.D. Blankenship</u>	\$ 571,026	Jul. 93 – Dec. 96
Texas Advanced Research Program	“Supersensitive Airborne Magnetometry for Geophysical Exploration and Environmental Hazard Detection.” / J.D. Phillips and <u>D.D. Blankenship</u>	\$ 256,300	Jan. 94 – Dec. 95
NSF Polar Programs	Airborne Lithosphere and Ice Cover Experiment (ALICE).” / <u>D.D. Blankenship</u>	\$ 315,465	Jul. 92 – Apr. 94
NSF Polar Programs	“Corridor Aerogeophysics of the Southeastern Ross Transect Zone (CASERTZ).” / <u>D.D. Blankenship</u>	\$ 1,009,093	May 90 – Apr. 93
NSF Polar Programs	“West Antarctic Glaciology.” / <u>D.D. Blankenship</u>	\$ 48,551	Jul. 91 – Jun. 92
Univ. of Washington	“Airborne Radar Survey of McMurdo Dome, Antarctica.” / <u>D.D. Blankenship</u>	\$ 22,829	Aug. 90 – Oct. 91
NSF Polar Programs	“Further Continuation of Glaciogeophysical Survey of the Interior Ross Embayment (GSIRE).” / C.R. Bentley and <u>D.D. Blankenship</u>	\$ 1,018,378	Nov. 87 – Feb. 91

UNIVERSITY SERVICE – D.D. BLANKENSHIP

- 2009 – Present *Member*, Equipment Committee (Jackson School of Geosciences)
- 2009 – Present *Member*, Overhead Return Advisory Committee (Institute for Geophysics)
- 2009 – Present *Member*, Earth Surface and Hydrological Processes Search Committee (Jackson School of Geosciences)
- 2006 – 2009 *Member*, Opportunity Hire Search Committee (Jackson School of Geosciences)
- 2006 – 2009
2006 *Chair*, Equipment Committee (Jackson School of Geosciences)
- 2006 *Instructor*, Earth Dynamics, (Department of Geological Sciences)
- 2005 – 2009 *Member*, Strategic Planning Council (Jackson School of Geosciences)
- 2005 – 2006 *Member*, Search Committee for Marine Geophysics and Cryospheric Science (Institute for Geophysics)
- 2004 – 2005 *Member*, Implementation Committee (Jackson School of Geosciences)
- 2003 – 2006 *Member*, Equipment Committee (Jackson School of Geosciences)
- 2002 – Present *Elected Member*, Graduate Studies Committee (Department of Geological Sciences)
- 2002 – 2003 *Chair*, Ad hoc committee for an Airborne Geoscience Initiative (Jackson School of Geosciences)
- 2002 – 2003 *Member*, Ad hoc committee for a Water Resources Initiative (Jackson School of Geosciences)
- 2002 – 2003 *Member*, Ad hoc committee for a Climate Change Initiative (Jackson School of Geosciences)
- 2002 *Chair*, Committee on National Rankings (Jackson School of Geosciences)
- 2001 – 2002 *Member*, Climate Change Working Group (Environmental Science Institute)
- 2000 – 2001 *Member* Search Committee for Quantitative Paleoclimatologists (Institute for Geophysics)
- 2000 – 2004 *Member* Computer Committee (Institute for Geophysics)
- 2000 – 2004 *Member* Development Advising Committee (Institute for Geophysics)
- 1997 – 1998 *Member* Computer Graphics Committee (Institute for Geophysics)
- 2000 – 2001 *Member* Geoscience Alliance Committee (Department of Geological Sciences/Bureau of Economic Geology/Institute for Geophysics)
- 2000 *Host*, Professor David Besson, The University of Kansas, Department of Physics, Big XII Faculty Fellow.
- 1995 – 2000 *Member* Public Relations Committee (Institute for Geophysics)
- 1997 – 1999 *Member* Seminar Committee (Institute for Geophysics)
- 1996 – 1997 *Member* Fellowship Committee (Institute for Geophysics)
- 1996 – 1997 *Member* Committee to Relocate The Institute (Institute for Geophysics)
- 1994 – 1996 *Member* Computer Committee (Institute for Geophysics)
- 1992 – 1994 *Member* Library Committee (Institute for Geophysics)
- 1992 – 1994 *Member* Ship, Space and Equipment Committee (Institute for Geophysics)

COMMUNITY SERVICE – D.D. BLANKENSHIP

- 2009 Technical Advice: **British Broadcasting Corporation**, Television documentary “Seven Wonders of the Solar System”.
- Technical Advice: **Australian Broadcasting Corporation**, Television series “Foreign Correspondent” Episode “What Lies Beneath” presented by Mark Corcoran.
- Radio Interview: **Earth and Sky**, “In a warming climate, which ice sheet melts first?” presented by Deborah Byrd.
- Print Interview: **New Scientist**, “ANDRILL”, Doug Fox.
- 2008 Print Interview: **Antarctic Sun**, “ICECAP project to explore subglacial basins below sea level in East Antarctica”, Peter Rejcek.
- Print Interview: **Antarctic Sun**, “Scientific campaign brings new insights to East Antarctica, broadens international collaboration”, Peter Rejcek.
- Print Interview: **Austin American Statesman**, “On a mission to find life near Jupiter”, Mary Ann Roser.
- Television Interview: **KTBC FOX News Austin**, “ICECAP”.
- Print Interview: **Austin American Statesman**, “Modeling the West Antarctic ice sheet with supercomputers”, Kirk Leydendorf.
- Print Interview: **Science Now**, “The West Antarctic ice sheet and subglacial volcanoes”, Phil Birardelli.
- Lecture and Panel Discussion: **Radio Journalists Workshop, Austin, Texas**, Ice sheets and climate change.
- 2007 Print Interview, **Austin American Statesman**, Ice sheets and sea level.
- Press Conference, **American Geophysical Union**, The return to Europa.
- Television Interview, **KTBC**, Ice sheets, sea level and the Intergovernmental Panel on Climate Change, Nick Zackeman.
- Reviewer, **Exploration of Antarctic Subglacial Aquatic Environments: Environmental and Scientific Stewardship**, Report of the National Academy of Science.
- Radio Interviews: **KUT**, the West Antarctic ice sheet and sea level.
- Webcast Panel Discussion: **UT/JSG**, West Antarctic links to sea-level estimation.
- Print Interview, **Reuters**, the West Antarctic ice sheet and sea level.
- Print Interview, **Los Angeles Times**, the West Antarctic ice sheet and sea level, Alan Zarembo.
- Television Interview: **KXAN**, Intergovernmental Panel on Climate Change, Laura Skirde.
- Print Interview: **Austin American Statesman**, Intergovernmental Panel on Climate Change, A.Price.
- 2006 Print Interview: **New Scientist**, Antarctic subglacial lake environments, Gabrielle Walker.
- 2005 Radio Interview: **BBC**, Antarctica’s ice bottom exposed, Jonathan Amos.
- 2004 Print Interview: **Antarctica Exploration since the IGY**, Gabrielle Walker.
- Print Interview: **A History of Subglacial Exploration in Antarctica 1957-2007**, Katrina Dean.
- 2003 Radio Interview: **BBC** (Europa radar sounding).
- 2002 Technical Advice; **Fugro Inc**, aerogeophysical survey of the Prince Charles Mountains, East Antarctica.
- Sponsor: **Michael Parrish**, Antarctic Artists and Writers Program.
- Online Interview: “**Cyberways and Waterways**” March 7, 2002.
- Print Interview: **Physics Today**, February 4, 2002.
- 2001 Presentation: **Northwest Austin Rotary**, Austin, Texas.
- 2001 Technical Advice: **National Geographic** Antarctic Map Folio.
- 2000 Technical Advice: **NOVA** television documentary on glaciers and ice streams.
- Technical Advice: “**Moons of the Solar System**,” Discovery Channel.
- Print Interview: **Daily Texan** (West Antarctic Ice Streams).
- 1999 – 2000 Interview and Technical Advice: **Horizon** television documentary, “Lake Vostok,” **BBC/Discovery Channel**, Jonathan Renouf, producer (aired April 2001).

COMMUNITY SERVICE

(Continued)

- 1999 Print Interview: **New Scientist** (Europa).
Print Interview: **New Scientist** (West Antarctic Ice Streams).
- 1998 Technical Advice: **Antarctica**, Bantam Books, K.S. Robinson.
Presentation: **Kirby Hall School**, Austin, Texas.
Technical Advice: **New Explorers**, Kurtis Productions.
Print Interview: **Christian Science Monitor**.
Presentation: **Hill Elementary**, Austin, Texas.
Interviews and Technical Advice: **NOVA documentary, "Warnings From the Ice,"** PBS, Rob Gardner, producer (aired April 21, 1998).
- 1997 Technical Advice: **Earth and Sky**, NPR, Deborah Byrd, producer.
Print Interview: **New York Times**.
- 1996-1997 Interviews and Technical Advice: **Horizon documentary, "The Ice Melts,"** Kate O'Sullivan producer (aired October 5, 1997).
Print Interviews: **Time, Chronicle of High Education, Austin American Statesman**.
- 1995 Technical Advice: **Green Mars**, Bantam Books, K.S. Robinson.
- 1994 Technical Advice: **"Surprising Scientific Facts, Breakthroughs, and Discoveries,"** John Wiley and Sons, S.B. McGrayne.
Technical Advice: **Dans La Nature, Canal Plus** (French Television) documentary, Laurence Labert.
- 1993 Interview: **As it Happens, Canadian Broadcasting Corporation**.
Technical Advice: **Earth and Sky**, NPR, Deborah Byrd, producer.
Print Interviews: **Science News, Discover, New York Times, Washington Post, Scientific American, The Economist, Austin American Statesman, Decatur Herald and Review, Reader's Digest, Mundo 21**.
Presentation: **LAMP** (Learning Activities for Mature People), Texas Division of Continuing Education.
- 1991-1992 Technical Advice: **IMAX documentary "Antarctica,"** John Wiley, producer.