

Lonnie G. Thompson

Curriculum Vitae

Distinguished University Professor, School of Earth Sciences
Senior Research Scientist, Byrd Polar and Climate Research Center
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Key Indicators of Scholarly Excellence

- ✦ Elected Member of The National Academy of Sciences, 2005
- ✦ United States Medal of Science, 2007, awarded by the President of the United States at the *White House, Washington, D.C.*
- ✦ Elected Foreign Member of the Chinese Academy of Sciences, 2009
- ✦ Dr. A.H. Heineken Prize for Environmental Science, 2002, *Royal Netherlands Academy of Arts and Sciences, Amsterdam*
- ✦ Benjamin Franklin Medal, *The Franklin Institute, 2012*
- ✦ Tyler Prize for Environmental Achievement, 2005
- ✦ Dan David Prize in Geosciences, 2008
- ✦ The Common Wealth Award for Science and Invention, 2002
- ✦ Vega Medal, 2002, *Swedish Society for Anthropology and Geography*
- ✦ Elected Fellow of the American Association for the Advancement of Science, 2005
- ✦ Elected Member of the American Philosophical Society, 2006
- ✦ Elected Fellow of the American Geophysical Union, 2001
- ✦ Honorary Doctoral Degree, 2013, *University of Pennsylvania's 257th Commencement, Philadelphia, Pennsylvania*
- ✦ Honorary Doctorate of Science, 2011, *University of Lancaster, United Kingdom*
- ✦ Honorary Doctorate of Science Degree, Spring 2009, *Northwestern University, Evanston, Illinois*
- ✦ Honorary Doctorate of Science Degree, Spring 2009, *Colgate University, Hamilton, New York*

Additional Indicators of Scholarly Excellence (chronological)

- ✦ Margaret Douglas Medal from The Garden Club of America (GCA) for Notable Service to the Cause of Conservation Education, 2016

- ✚ **Named in Time Magazine's Special Edition, *Great Scientists: The Geniuses, Eccentrics and Visionaries Who Transformed Our World*, January 30, 2015**
- ✚ **Named Adjunct Professor, *Chinese Academy of Sciences Center for Excellence in Tibetan Plateau Earth Science* (CETES), Beijing, China, 2014**
- ✚ ***Joseph Sullivant Medal for Excellence in Paleoclimatology, Teaching, and Research*, 2013, Winter Commencement, The Ohio State University, Columbus, Ohio**
- ✚ **American Polar Society Medal and Lifetime Membership, 2013, Woods Hole, Massachusetts**
- ✚ **International Science and Technology Cooperation Award, 2012, People's Republic of China, Great Hall of the People, Beijing, China**
- ✚ **Friendship Award from the State Council of the People's Republic of China for Promotion of Cooperation and Friendship between U.S.A. and China, 2012, People's Republic of China, Great Hall of the People, Beijing, China**
- ✚ **Distinguished Alumni Award, 2012, The Ohio State University, College of Arts and Sciences, Columbus, Ohio**
- ✚ **Award for International Scientific Cooperation of the Chinese Academy of Sciences, 2011, Institute of Tibetan Plateau Research, Beijing, China**
- ✚ **Mountain Hero Award for Excellence in Conserving Mountain Environments, October 22, 2009, The Cosmos Club, Washington, D.C.**
- ✚ **The David R. Brower Conservation Award for Outstanding Service in Mountain Conservation, 2009, Golden, Colorado**
- ✚ **Environmental Hero, 2008, Time International Magazine**
- ✚ **Lifetime honorary member of the Geological Society of Peru, 2008**
- ✚ **Elected to the Board of Directors Andean Mountain Museum, 2008, Lima, Peru**
- ✚ **The Seligman Crystal, 2007, International Glaciological Society**
- ✚ **Alumni Medalist Award, 2007, The Ohio State University, Columbus, Ohio**
- ✚ **Einstein Lecturer, 2007, Chinese Academy of Sciences**
- ✚ **Sphinx Senior Honorary Chapter Senior Member, 2007, The Ohio State University, Columbus, Ohio**
- ✚ **Distinguished Explorer Award, 2007, Roy Chapman Andrews Society**
- ✚ **Elected Alumni member of Phi Beta Kappa, Epsilon of Ohio, 2006**
- ✚ **Phi Kappa Phi, inductee, 2004**
- ✚ **John Marshall Medal for Civic Responsibility, 2002, Marshall University, Huntington, West Virginia**

- ✚ **Science Magazine Special Article**, *Ice Man: Lonnie Thompson Scales the Peaks for Science*, by Kevin Krajick, October 2002
- ✚ **University Distinguished Scholar Award**, 2001, *The Ohio State University, Columbus, Ohio*
- ✚ **Named America's Best in Science and Medicine**, 2001, *Time Magazine and CNN*

Education

Ph. D., Geological Sciences, *The Ohio State University, Columbus, Ohio, 1976*

M.S., Geological Sciences, *The Ohio State University, Columbus, Ohio, 1973*

B.S., Geology, *Marshall University, Huntington, West Virginia, 1970*

Professional Appointments

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| <i>2002-Present</i> | Distinguished University Professor, School of Earth Sciences, and Senior Research Scientist, Byrd Polar and Climate Research Center, The Ohio State University |
| <i>2014-Present</i> | Adjunct Professor, Chinese Academy of Sciences, Center for Excellence in Tibetan Plateau Earth Sciences (CETES), Beijing, China |
| <i>2005-Present</i> | Co-director of Academics, Tibetan Plateau Research Institute, Beijing, China |
| <i>1994</i> | Professor, Department of Geological Sciences, The Ohio State University |
| <i>1991</i> | Associate Professor, Department of Geological Sciences, The Ohio State University |
| <i>1976</i> | Research Scientist, Byrd Polar Research Center, The Ohio State University |

Committee Appointments

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| <i>2018-23</i> | Member of the Advisory Board of National Science Review (NSR) |
| <i>2016-19</i> | Ohio State's Distinguished Scholar Award Selection Committee Office of Research. |
| <i>2016</i> | Chairman and organizer of the 6 th Third Pole Environmental Workshop: Understanding coupled physical, chemical, biological and social systems, May 15-18, Columbus, OH. |
| <i>2014</i> | Co-Chair and Organizer of the 5 th Third Pole Environment Workshop (with Yao Tandong, Volker Mosbrugger). Third Pole Environment: The Dynamics and Global Linkages, December 7-11, Max-Planck-Gesellschaft, Berlin, Germany. |

- 2014 Elected member of Scientific Committee for the Chinese Academy of Sciences Strategic Priority Programme (B) entitled “Tibetan Multiple Spheres Interactions and their Resource-Environment Significance (TIMI), Beijing, China.
- 2014 Member of International Review on Science and Technology, Ministry of Science and Technology of China. Challenges and Opportunities for China Brought by New Trends in Global Science and Technology Development. January 17, Beijing, China.
- 2013-18 Chinese Academy of Sciences National Science Review (NSR) Advisory Board
- 2012 Fellows Selection Committee, National Academy of Inventors, University of South Florida
- 2009-11 Member, NSF Advisory Committee for Geosciences (AC-GEO)
- 2010 Chair, Committee of Visitors for the NSF Atmospheric Section (April 7-9, 2010), National Science, Arlington, VA.
- 2007-11 Member-at-Large: American Association for the Advancement of Science Section Committee on Geology and Geography (E)
- 2009 Chair, National Academy of Sciences, Selection Committee for the 2009 Mary Clark Thompson Medal
- 2007 Chair, NSF “Post-ESH Research,” March 29-30th. Washington, D.C. To create a new NSF paleoclimate program and funding plan
- 2007 Chair for Academic Program Review, Laboratory of Tree-Ring Research, March 20-21st, University of Arizona
- 2006-09 Member, National Research Council’s (NRC) Climate Research Committee of the National Academy of Sciences
- 2006-07 Member, Advisory Board, for Climate, Water and Carbon Initiative, OSU
- 2005 Chairman: External Review Committee for the Environmental Sciences Graduate Program in the School of Natural Resources
- 2005 Chief Editor: International Glaciological Society: International Symposium on High-Elevation Glaciers and Climate Records. Lanzhou, China. September 5-9
- 2005-10 Executive Review Committee for the Canadian Polar Climate Stability Network
- 2004-05 Canadian Foundation for Climate and Atmospheric Sciences (CFCAS) Review Committee
- 2003 Climate Change Data and Detection Proposal Review Panel. Washington D.C. December 16-17
- 2001-04 Science Advisory Panel for the Climate Change Data and Detection (CCDD) Program, NOAA Climate and Global Change (C&GC) Program
- 1996+ NSF AMS External Users Advisory Committee for University of Arizona
- 1996-99 Steering Committee for ARTS International Program
- 1996-98 National Academy of Sciences Panel on Climate Variability on Decade- to -Century Time Scales

- 1996+ WCRP-CLIVAR Scientific Steering Group PAGES-CLIVAR Joint Working Group
- 1995+ NSF AMS External Advisory Committee for Purdue University
- 1995-99 NOAA National Panel on Climate and Global Change
- 1995-98 PAGES- Pole Equator Pole I Steering Committee
- 1995-98 PAGES-Pole Equator Pole II Workshop: The Austral-Asian transect. Invited 1996
- 1988-95 National Research Council, U.S. National Committee for the International Union for Quaternary Research (USNC/INQUA)
- 1986-89 Member, U.S. Ice Core Working Group

Editorial Activity

- 2012+ Technology and Innovation Proceedings of the National Academy of Inventors
- 2011 Technology and Innovation Proceedings of the National Academy of Inventors, Cognizant Communication Corporation, New York, Sydney, Tokyo.
- 2007 American Association for the Advancement of Science
- 2000+ Quaternary Science Reviews: Editorial Board
- 1999+ Invited and Elected to the Advisory Board of the International Glaciological Society, Cambridge, England
- 1994+ Geology: Editorial Board
- 1990+ International Editorial Advisory Board for Interdisciplinary Journal - *The Holocene*

Research Expeditions (62 total)

- 2016 Field team leader of a 12 member expedition to the **Quelccaya Ice Cap and Huascarán, Peru**, June 18 to July 25. (RAPID NSF and OSU funding).
- 2015 Field team leader of a 60 member expedition to the **Guliya Ice Cap**, Western Kunlun Mountains China Glacier sounding and 4 cores recovered to bedrock from 6700 meters Sept 15-October 26. Accompanied by CCTV and Science Magazine reporter.
- 2015 Field team leader of a 20 member expedition to **Quelccaya, Peru** to take terrestrial photos of Qori Kalis glaciers, sample snow pits, and collect plants, May 26 to June 12. The *Associated Press* joined this expedition to produce a film for 2015 Paris climate change meeting along with a freelance writer from New York.
- 2014 Field team leader of a 6 member brief follow-up expedition to the Northwall Firn, **Papua, Indonesia**, August 9 to August 19.
- 2013 Field team leader of 26 member expedition for a reconnaissance program to the Zangser Ice Cap, in **West Central Tibet**, May 20 to June 20.

- 2011 Co-team leader of a 20 member expedition to the Ortles ice field expedition in the **Italian Alps** to drill ice cores, September 14 to October 11.
- 2011 Field team leader of an 11 member expedition to the **Quelccaya ice cap, Peru**, June 30 to July 17.
- 2010 Field team leader of a 20 member expedition to drill ice cores from the remaining ice fields of Puncak Jaya, **Papua, Indonesia** May 4 to July 5.
- 2009 Field team leader of a 40 member team to drill ice cores from col between Hualcán and Copa in the **Cordillera Blanca, Peru** and in the **Quelccaya ice cap, Peru**, June 22 to August 30.
- 2009 Field reconnaissance program to **New Guinea**, May 9 to May 21 for 2010 ice core drilling program.
- 2009 Field reconnaissance program to the **Andes of Peru** set up logistics for a 2009 summer drilling program in the Cordillera Blanca, Peru. April 18-28.
- 2008 Field team leader of an expedition to the Quelccaya and Hualcán ice fields in the **Andes of Peru**, June 13 to July 14.
- 2007 Field team leader of an expedition to the Quelccaya Ice Cap in **southern Peru** and to the Cordillera Blanca in **northern Peru**, June 15 to July 16.
- 2006 Field team leader of a 25 member team to collect ice cores from Naimona'nyi glacier in the **Himalayas**, September 9 to November 1.
- 2006 Field team leader of a 20 member team to collect groundwater samples and aerial photos of **Kilimanjaro, Tanzania**, January 6 to February 6.
- 2006 Field team leader of an 8 member team expedition to Quelccaya ice cap, **Andes of Peru**, July 7 to August 1.
- 2005 Field team leader of a 12 member team to collect plants, photograph the **Qori Kalis glacier**, sampled the 2004-2005 snow accumulation and to raise the satellite linked weather station on the summit of the Quelccaya ice cap.
- 2004 Field team leader of a 20 member team exploring in preliminary investigation of the Naimona'nyi ice fields in southwestern **Himalayas** from August 11 to September 15.
- 2004 Field team leader of a 14 member team filming and conducting research on the **Quelccaya ice cap, Peru**. July 3 to July 25.
- 2003 Field team leader of a 25 member team to drill ice cores on the summit of the Quelccaya and Coropuna ice caps in the high **Andes of Peru** from July 13 to September 10.
- 2002 Field team leader of a 5 member expedition to drill ice cores and map the **Quelccaya ice cap, Peru**. July 20 to August 6.
- 2002 Field team leader of a 10 member expedition to drill ice cores on **Bona-Churchill, Alaska**, April 30 to June 15.
- 2000 Field team leader of a 10 member team to drill ice cores on **Kilimanjaro, Africa**. January 10 to March 4.

- 2000 Field team leader of a 6 member team conducting glacier retreat survey on the **Quelccaya ice cap, Peru**, August.
- 2000 Field team leader (U.S. side) of a 48 member team to drill ice cores on the 6000 meter Puruogangri Ice Cap on the **Central Tibetan Plateau** from September 10 to November 5.
- 1999 Field team leader to **Kilimanjaro, Tanzania**. Preliminary investigation to determine possible future deep drilling project. February.
- 1999 Field team leader to **Bona-Churchill, Alaska**. Preliminary investigation to determine possible future deep drilling project. June.
- 1999 Field team leader of a 17 member team to carry out preliminary investigation of Puruogangri ice cap, **central Tibet**. Funded by the Natural National Science Foundation of China. August and September.
- 1997 P.I. on USA-Russian ice core drilling expedition to Franz Joseph Land in the **high Russian Arctic**. 376 meters of ice core recovered and returned to The Ohio State University on this NASA funded project.
- 1997 Field team leader of the USA-Bolivian-French ice core drilling program on the 6550 meter (21,500 ft.) **Volcano Sajama**. 308 meters of ice core recovered and returned to The Ohio State University on this NOAA funded project.
- 1997 Field team leader of the USA-Chinese ice core drilling program on the 7200 m (23,500ft) **Dasuopu Glacier in the Himalayas**. 476 meters of ice core recovered and returned to The Ohio State University on this NSF funded project.
- 1996 Field Leader on the NSF Dasuopu expedition, July 5 to September 10. Fifty meters of ice cores drilled from the 7090 meter (23,260 ft.) **Summit of Dasuopu**. 18 meters of firn core returned frozen from Tibet. Cores Highest ever drilled: Ice thickness maximum measured 350 meters.
- 1994 U.S. Team Leader, 1 month joint USA-Bolivia-French expedition to **Laguna Colorado** and to recover ice cores from **Sajama, Bolivia**.
- 1994 U.S. Team Leader, 1 month joint Peruvian-USA expedition to **Cordillera Blanca, Peru**.
- 1994 U.S. Team Leader, 6 week joint USA-Russia-English expedition to Franz Joseph Land in **Russian Arctic**.
- 1993 U.S. Team Leader, two-month joint Peruvian-USA expedition to **Cordillera Blanca** and **Quelccaya Ice Cap, Peru** (Hualcán, Huascarán, Pucahirca). Two ice cores were drilled to bedrock on Huascarán.
- 1992 U.S. Team Leader, serviced satellite-linked meteorological stations on **Cordillera Blanca, Peru**. March.
- 1992 U.S. Team Leader, two-month joint Peruvian-USA expedition to **Cordillera Blanca** and **Quelccaya Ice Cap, Peru** (Hualcán, Huascarán, Copap, Pucahirca).
- 1992 U.S. Team Leader, three-month joint China-USA expedition to **Guliya Ice Cap, Western Kunlun, China**.
- 1991 U.S. Team Leader, two month joint China-USA expedition to **Guliya Ice Cap, Western Kunlun, China**.

- 1991 U.S. Team Leader, two month joint Peruvian-USA expedition to **Cordillera Blanca and Quelccaya Ice Cap, Peru.**
- 1990 U.S. Team leader, one and a half month joint USSR-USA climatological/glaciological expedition to **Tian Shan and Pamirs, Russia.**
- 1990 U.S. Team leader, one and a half month joint China-USA expedition to **Guliya Ice Cap, Western Kunlun, China.**
- 1990 U.S. Team Leader, one and a half month joint Peruvian-USA expedition to **Cordillera Blanca, Peru.**
- 1989 U.S. Glaciologist, two and a half month climatological-glaciological program in the **Antarctic Peninsula.** Program in cooperation with University of Washington and British Antarctic Survey.
- 1988 U.S. Glaciologist, two and a half month climatological-glaciological program in the **Antarctic Peninsula.** Program in cooperation with the British Antarctic Survey.
- 1987 U.S. Team Leader, three month glaciological-climatological investigation of the **Dunde ice cap in China** cooperative program with Academia Sinica of China jointly funded by the Office of Climate Dynamics and the Division of Polar Programs, the National Geographic Society and the National Science Foundation of China. Three ice cores drilled- 136, 138, 139 m through the ice cap.
- 1986 Two month glaciological investigation of the **Dunde Ice Cap in China** cooperative program with Academia Sinica of China jointly funded by the Office of Climate Dynamics and the Division of Polar Programs, the National Geographic Society and the Academia Sinica of China.
- 1984 Three month glaciological-climatological investigation of the Tian Shan glaciers and **Dunde Ice Cap in China** sponsored by the U.S. National Academy of Science's National Program for Advanced Studies and Research in China and the Academia Sinica of China.
- 1984 Leader, Glaciological program for completion of the Quelccaya Program and preliminary research program in the **Cordillera Blanca in Peru.**
- 1984 Three month glaciological investigation of the Tian Shan glacier and **Dunde glacier in China** (NAS grant).
- 1983 Leader, three month Glaciological program on **Quelccaya Ice Cap, Peru.** Two cores drilled, one core 163.4 meters through the Ice Cap. (NSF grant).
- 1982 Leader, Glaciological program on the **Quelccaya Ice Cap, Peru.** (NSF grant).
- 1981 Leader, Glaciological program on the **Quelccaya Ice Cap, Peru.** (NSF Grant).
- 1980 Leader, seven-man Glaciological program on the **Quelccaya Ice Cap and Huascarán, Peru.**
- 1979 Leader, twelve-man Glaciological ice core drilling program on **Quelccaya Ice Cap, Peru** (NSF Grant).
- 1978 Glaciologist, **Mt. Kenya, Africa** expedition (NSF Grant).
- 1978 Leader of an eight-man Glaciological party to **Quelccaya Ice Cap, Peru** (NSF Grant).

- 1977 Leader of a six-man Glaciological party to **Quelccaya Ice Cap, Peru** (NSF Grant).
- 1976 Leader of a six-man Glaciological party to study **Quelccaya Ice Cap, Peru** (NSF Grant).
- 1974 Glaciologist for a four-man party to study **Quelccaya Ice Cap, Peru** (NSF Grant).
- 1973 Deputy Leader, Byrd Station Strain Net Field Party, **Antarctica** (NSF Grant). 1973-1974.

Funded Research Programs (73 total)

- 2016-18 Principal Investigator (PI), P2C2: ***Climate and environmental variability over the last glacial cycle from ice cores in the Western Kunlun Mountains (Tibetan Plateau)***, NSF, 1502919.
- 2015-16 Principal Investigator (PI), RAPID: ***Characterizing the chemical and physical signature of the 2015-16 El Niño in the Quelccaya Ice Cap snow and ice to calibrate past ENSO reconstructions***, NSF, 1603377.
- 2015-18 Principal Investigator (PI), P2C2: ***Climate and Environmental Variability over the Last Glacial Cycle from Ice Cores in the Western Kunlun Mountains (Tibetan Plateau)***, NSF, EAR-1502919.
- 2014-17 Co-Principal Investigator (Co-PI), ***Indian Summer Monsoon Variability Reconstructed from Decadally-Resolved Tibetan Lake Sediments***, NSF, EAR-1404819.
- 2014-16 Co-PI, ***Analyzing atmospheric warming and environmental changes from high altitude ice cores***, NSF, BCS-1461422.
- 2014-16 Co-PI, ***Past climatic and environmental changes at high elevation in South Tyrol from the Mt. Ortles ice cores during the last centuries***, Bolzano (Italy) Dept. of Fire and Civil Protection, 142/2014.
- 2012-16 Co-PI, ***Impact of Atmospheric Trace Elements on the Third Pole Glaciers***, NSF, AGS-1149239.
- 2011-12 Co-PI, ***Climate, ecosystems and human society as recorded in the first ice core extracted from the Tyrolean Alps***, NSF, BCS-1060115.
- 2010-11 PI, ***1500 years of summer monsoon variability reconstructed from high-resolution Tibetan lake sediments***, NSF, EAR-1023547.
- 2009-11 PI, Collaborative Research: ***Development of high-resolution biomass burning records for tropical South America from Andean ice cores***, NSF, BCS-0921509.
- 2009-10 PI, ***Chapman Conference on Abrupt Climate Change***, June 15-19, 2000, Workshop held in Columbus, Ohio, NSF, OCE-0928601.
- 2008-09 Co-PI, ***Acquisition of an Inductively Couple-Sector Field Mass Spectrometer to Extract Atmospheric Trace Element Histories from Ice Cores and Assess Contemporary Water Quality***, NSF, ANT-0820779.

- 2008-11 PI, **Climate Water Carbon Core Project: Low-latitude glacier retreat**, The Ohio State University, Targeted Investment in Excellence award to the Byrd Polar Research Center.
- 2008-11 PI, **P2C2--reconstructing tropical pacific climate variability and monsoon systems, and abrupt changes from ice cores on Irian Jaya, Indonesia and Hualcán, Peru**, NSF Atmospheric Sciences, ATM-0823586.
- 2008-11 Co-PI, Collaborative Research in IPY: **Abrupt Environmental Change in the Larsen Ice Shelf System, a Multi-Disciplinary Approach - Cryosphere and Oceans**, NSF Polar Programs, ANT-0732655.
- 2006-09 PI, **Integration of paleoclimate records since the Early Holocene from a suite of Tibetan Plateau ice core records**, NOAA-CCDD.
- 2005-10 Co-PI, Science and Technology Center: **Ice Sheets and Sea Level Rise**, University of Kansas (via NSF), (2200219).
- 2005 PI, **Kilimanjaro 5 year Glacier Assessment Project**, The Ohio State University, College of Math & Physical Sciences.
- 2005 Co-PI, The Ohio State University, **Byrd Polar Research Center Cold Room Renovation Project**. Funded through a Capital Funding Request, State of Ohio and The Ohio State University.
- 2005-08 PI, **Reconstructing Monsoon and Climate Variability from Naimona'nyi Ice Cores, Southwest Himalayas**. NSF-ESH (ATM-0502476).
- 2005-08 Co-PI, Collaborative Research: HSD: **The Living Environment and Human Health Over the Millennia**, NSF (SBER), (BCS-0527658).
- 2004 PI, **Naimona'nyi expedition to S.W. Himalayas**, The Ohio State University and Institute of Tibetan Plateau Research, Chinese Academy of Sciences.
- 2003-06 PI, **A tropical perspective on 20th century climate change from ice core histories and glacier area and volume measurement from the Quelccaya and Coropuna ice caps in the Southern Andes of Peru**. NSF-ESH (ATM-0318430).
- 2003-06 Co-PI, **Glacial Assessment: Past, Present and Future: Acquisition of essential research instrumentation**, NSF-OPP (OPP-0321053).
- 2002-08 PI, **Comer Climate Change Fellowship Program**, Comer Climate Change Science and Education Foundation (20010582 CC4).
- 2001-05 PI, **Ice Core Reconstruction of North Pacific Climate Variability and Environmental History from Bona-Churchill Ice Field, Alaska**, NSF-ARCTIC (OPP-0099311).
- 2001-05 PI, **Cooperative Ice Core Paleoclimate Study of Monsoon Variability as Archived in the Puruogangri Ice Cap on the Central Tibetan Plateau**, NSF-ESH-Paleoclimate (ATM-0117113).
- 2001-02 PI, **Climate Change and Environmental Research Initiative (CCERI)**. Board of Regents' Research Challenge Program and Vice President for Research (funded with four Colleges).

- 2001-02 PI, Interdisciplinary Research Seminar Program: **Humans and Climate: A historical Examination of adaptive responses to Drought and Aridification.** Public lecture seminar organized by Byrd Polar Research Center, Dept. of Anthropology, Dept. of Geography and Dept. of Geological Sciences. OSU Office of Research funded.
- 2000-03 PI, **Role of Environmental Molecular Interfaces on the Chemical and Biological Reactivity of Pollutants-Atmospheric-5.** NSF-EMSI.
- 2000-01 PI, **Cooperative Ice Core Paleoclimate Study of Monsoon Variability as Archived in the Puruogangri Ice Cap on the Central Tibetan Plateau,** NSF-SGER.
- 1999-02 Co-PI, Collaborative Research: **Paleoenvironmental changes in the Bolivian Altiplano: A high-resolution pollen record from the Sajama Ice Cap,** NSF-GRSP.
- 1999-00 PI, **Ice Core Paleoclimate Study of East African Monsoon and ENSO Variability from the Ice Fields of Kilimanjaro,** NSF-ESH.
- 1998-02 PI, **Spatial and temporal variability of net annual accumulation and climate in Greenland,** NASA-NAG5-6817.
- 1997-00 PI, **Two High Elevations Subtropical Glaciers in Bolivia,** NOAA.
- 1996-00 PI, **A Cooperative Ice Core Paleoclimate Study of Monsoon (Dasuopu Glacier, China),** NSF.
- 1996-00 PI, **1996 NASA Graduate Research Fellowship Program** fellowship (Keith A. Henderson), NASA.
- 1996-99 PI, **Thermodynamics of Eurasian Arctic ice caps,** U.S. Civ. R&D FDN ISFSU (RG2-144).
- 1995-99 PI, **Net Accumulation in Western Greenland for the Last 200 Years,** NASA.
- 1995-99 PI, **A Cooperative Paleoclimate Study of Graham Bell Ice Cap, Franz Josef Land, Russia,** NASA.
- 1994-97 Co-PI, **Reconstructing Earth's Volcanic History from High Resolution Polar Ice Cores,** NSF (OPP-9321478).
- 1994-96 PI, **Collaborative Research on Analysis of a High-Resolution Pollen Record from the Dunde Ice Cap of Western China,** NSF (SBR-9412262).
- 1994-95 PI, **Preliminary Assessment of the Paleoclimate Records Preserved in Ice Cores from Franz Josef Land (Russian Arctic) with Emphasis on a Proxy Record for Regional Sea Ice Extent,** NASA (NAGW-3933).
- 1994-95 Co-PI, **Holocene/Late Wisconsinan Dust History from Taylor Dome, Antarctica.** NSF (OPP-9316282).
- 1994-95 PI, **A Cooperative Paleoclimatic Study of the Northern Martian Ice Cap: Evaluation of the Potential Quality, Length, and Time Resolution of the Preserved Environmental Record,** University of California, Los Angeles (P.O. 0995 G 4B203).

- 1993-95 PI, **Field Work, saline lakes of the Central Andes**, NSF (EAR-9304504).
- 1992-94 Co-PI, **Long-Term Trend in Net Mass Accumulation at South Pole**, NSF (OPP-9117447A01).
- 1991-95 Co-PI, **Analysis of Rapid and Recent Climatic Change**, NSF (ATM-9008407-AO2).
- 1991-95 Co-PI, **Analysis of Rapid and Recent Climatic Change**, NSF (ATM-9008407-AO2).
- 1991-94 PI, **A Cooperative Tropical Paleoclimatic Ice Core Study in the Cordillera Blanca, Peru and its Relationship to Global Climatic Variability, Phase II**, NOAA (NA-16RCO525-02).
- 1991-92 PI, **A Cooperative Paleoclimatic Study of the Guliya Ice Cap, China: Relationship to Global Climatic Variability, Phase II**, National Geographic Society, (No. 4522-91).
- 1991-92 Co-PI, **Quelccaya Data Volume**, NOAA, (40RAN5107736).
- 1990-96 PI, **Ice core retrieval, analysis and interpretation, Guliya Ice Cap**, NSF (ATM-89166350).
- 1990-94 PI, **A Cooperative Climatological Study of the Guliya Ice Cap, China: Relationship to Global Climate Variability**, NSF (ATM RF-724347).
- 1990-93 Co-PI, **Climatic Variations in the Asian Monsoon Region from AD 1600: Analysis of High Resolution Paleoclimatic Data**, NOAA.
- 1990-93 PI, **Snow and Ice Process Studies Using Satellite Linked Weather Stations on the High Altitude Tropics of Peru**, NOAA, (NA90AA-D-AC547).
- 1990-93 PI, **A Cooperative Tropical Paleoclimatic Ice Core Study in the Cordillera Blanca, Peru, and Its Relationship to Global Climatic Variability, Phase I**, NOAA, (NA89AA-D-AC197).
- 1990-92 PI, **Exploratory Research for U.S.-U.S.S.R. Cooperation in Ice Core Research in the Tian-Shan and Pamir Ranges**, NSF.
- 1990-91 PI, **A Cooperative Paleoclimatic Study of the Guliya Ice Cap, China: Relationship to Global Climatic Variability**, National Geographic Society (Grant No. 4309-90).
- 1988-93 PI, **A Cooperative Climatological-Glaciological Program in the Antarctic Peninsula**, NSF (OPP-8716384).
- 1988 Co-PI, **Pollen Analysis on Ice Core Samples from the Dundee Ice Cap, China** (OSU Grant).
- 1986-90 Co-PI, **Holocene Paleoclimatic Reconstruction from Greenland Ice Cores**, NSF (OPP-8520885).
- 1986-88 PI, **A Cooperative Paleoclimatic Study of the Dundee Ice Cap and its Relationship to Global Climatic Variability** (funded jointly by NSF grant ATM-8519794 and The National Geographic Society Grant No. 3323-86).

- 1985 Co-PI, **Glaciological and climatological analysis of the past 2,000 years from Antarctic ice cores**, NSF (OPP-841-0328A01).
- 1983 PI, **Paleoclimatic investigations on the Quelccaya Ice Cap, Peru**, NSF (ATM-8213601).
- 1982 PI, **A cooperative climatological-glaciological program in China**, National Academy of Sciences.
- 1981 Co-PI, **Microparticle analysis and glaciological interpretation of the 500-m ice core, South Pole, Antarctica**, NSF (OPP-8018860).
- 1981 PI, **Comparative Microparticle Analysis of the 385-m J-9 Ice Core, Ross Ice Shelf**, NSF (OPP-8016151).
- 1979 PI, **Paleoclimatic Ice Core Records from the Tropical Quelccaya Ice Cap**, NSF (ATM-7821609).
- 1978-79 PI, **Microparticle Stratigraphy of Ice Cores from the Ross Ice Shelf**, NSF (OPP77-19371A01).
- 1976-77 Co-PI, **Study of Microparticle Variations in a 101-meter Ice Core from South Pole, Antarctica**, NSF (OPP-7607745).
- 1974-76 PI, **Further Development of a Micro-particle Laboratory for the Study of Ice Cores**, NSF (OPP-7422274).
- 1974-76 Co-PI, **The Paleoclimate of the Quelccaya Ice Cap, Peru, and Its Relationship to Paleoclimate in High Latitudes**, NSF (ATM74-15513A02).
- 1972-76 Co-PI, **Dust Concentrations in Antarctic and Greenland Ice Cores**, NSF (OPP-7104063A02).

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- Other Publications (55)*
- 2017 Ice Core Records of Climate and Environmental Variability in the Tropical Andes of Peru: Past, Present and Future L. G. Thompson, E. Mosley-Thompson, M. E. Davis, S. E. Porter. INAIGEM.
- Boston Globe, Scientist document melting Glaciers based on *GSA Today*, Savor the Cryosphere (vol. 27, no. 8). March 3.
- 2016 Sixth Edition Grammar 3 in Context by Sandra N. Elbaum. Text: Lonnie Thompson-Ice Investigator pgs. 61-64. National Geographic Learning, CENGAGE Learning, 2016 textbook for teaching English grammar throughout the world.
- Notable Notebooks, Scientists and Their Writings by Jessica Fries-Gaither. NSTAKids, National Science Teachers Association, Arlington, VA 2016. Textbook for K-12.
- 2015 Down to Earth with Glaciologist Lonnie Thompson. Article in EARTH Magazine, February 2015, www.earthmagazine.org, pgs. 54-56.
- The Polar Times* January 2015. Glacier Balance by Lonnie G. Thompson. Vol.13, No. 26. p. 12-13.
- Mount Kilimanjaro Our Pride by Bartholomew Meena. E&D Vision Publishing, Dar es Salaam, Tanzania, January 1. Textbook for high school students.
- 2014 *Time Magazine* Special Edition: Great Scientists: The Geniuses, Eccentrics and Visionaries Who Transformed Our World. January 31, 2015, p. 68.
- Dispatch Intergovernmental Panel on Climate Change report release comments in story: Global warming heads 'out of control'. Story by Dean Narciso. Columbus Dispatch, April 1, Columbus, Ohio.
- 2013 National Geographic article, Why We Explore and The New Age of Exploration. Risk Takers, January, pgs. 62-63.
- Thompson, Lonnie G., & M. E. Davis. Ice Core Records from Africa. Elsevier B.V. 6 pps. QUT2 00319 for the Encyclopedia of Quaternary Science, 2nd Edition.

- Thompson, Lonnie G. Ice cores, high-mountain glaciers, and climate. In: State of the Earth's Cryosphere at the Beginning of the 21st Century: Glaciers, Global Snow Cover, Floating Ice, and Permafrost and Periglacial Environments, R.S. Williams, Jr. and J.G. Ferrigno, editors, Satellite Image Atlas of Glaciers of the World, U.S. Geological Survey Professional Paper 1386-A, pages A157-A191.
- 2012 Uglietti, C., P. Gabrielli and Lonnie G. Thompson. Recent environmental change as recorded by Andean ice-core glacio-chemistry. OSU International Affairs Posters, Bricker Hall, The Ohio State University, Columbus, Ohio.
- Science Technology Innovation event at COSI focusing on the most recent 100 years and the 200th anniversary of Columbus, Ohio. Ice core drills, core boxes, and other materials from OSU BPRC ICPRG on display.
- Committee on Himalayan Glaciers, Hydrology, Climate Change, and Implications for Water Security; Board on Atmospheric Studies and Climate; Division on Earth and Life Studies; National Research Council on Himalayan Glaciers. Himalayan Glaciers: Climate Change, Water Resources, and Water Security, National Academies Press, Washington, D.C. 143 pp.
- 2011 Rashid, H., E. England, Lonnie G. Thompson, & L. Polyak. Late Glacial to Holocene Indian Summer Monsoon Variability Based Upon Sediment Records Taken from the Bay of Bengal. *Terrestrial Atmospheric and Oceanic Sciences* 21, No. 2, 215-228. Williams, J. R. & J. G. Ferrigno. Vol. 1386-A: U.S. Geological Survey Professional Paper.
- 2010 Life and Death in a Dry Land (Peru's long-term survival depends on water from the glaciers of the high Andes, the problem is that all that ice will soon be gone). By George Black, *On Earth Magazine*.
- 2009 200+ newspaper articles published in the first 24 hours after publication of the 2009 Proceedings of the National Academy of Sciences paper, Glacier loss on Kilimanjaro Continues Unabated.
- Thompson, Lonnie G. Ice Cores, Mountain Glaciers. *Encyclopedia of Paleoclimatology and Ancient Environments*. Ed. Gornitz, V. Dordrecht; London: Springer, 457-463.
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- 2007 Thompson, Lonnie G., & M. E. Davis. Ice Core Records, South America. *Encyclopedia of Quaternary Science, Four Volume Set*. Ed. Elias, Scott A. Elsevier Science, 1233-1242.
- Thompson, Lonnie G., & M. E. Davis. Ice Core Records, Africa. *Encyclopedia of Quaternary Science, Four Volume Set*. Ed. Elias, Scott A. Elsevier Science, 1220-1225.
- 2006 Mystery in the Ice: What Happened 5,200 Years Ago? Freezing Point, by John Fleischman, *COSMOS*, Issue 8, May, p. 72-75.
- Mountains of Evidence, by Larry C. Peterson. This was a book review by Feorg Hoffmann on *Thin Ice: Unlocking the Secrets of Climate Change in the World's Highest Mountains*. Appeared in *American Scientist*, 94, p. 276-277, May-June.
- Spurensuche in der Todeszone by Hilmar Schmundt. *Der Spiegel*, April, pp. 126-129.

- 2005 The Ice Man Cometh, Interview by Fred Pearce. *New Scientist*, 2527, p. 46-48, November 26.
- The Ice Hunter part of the article entitled, "Warriors and Heroes Against Global Warming," *Rolling Stone Magazine*, p. 92, November 17.
- Peaks in Climate Change Research. This was a book review by Feorg Hoffmann on *Thin Ice: Unlocking the Secrets of Climate Change in the World's Highest Mountains*. Appeared in *Nature*, 438, p. 157.
- Ice Adventures: Tracking Evidence of Abrupt Climate Change across the Tropics, University of Texas, Austin. Outreach Lecture Series GK-12 Program, Vol. 36, April 15.
- Thin Ice: Unlocking the Secrets of Climate in the World's Highest Mountains*, by Mark Bowens. Henry Holt and company LLC, New York, New York. 463 pp.
- 2004 *National Geographic Magazine*: September 2004; Global Warning, Bulletins from a Warmer World.
- National Geographic Adventure Magazine*: August 2004; The Vanishing World of Lonnie G. Thompson.
- 2002 Zagorodnov, V. S., Lonnie G. Thompson, E. Mosley-Thompson, & J. J. Kelley. Performance of Intermediate Depth Portable Ice Core Drilling System on Polar and Temperate Glaciers. *Memoirs of National Institute of Polar Research Special Issue 56*: 67-81.
- 2001 Thompson, Lonnie G. Stable Isotopes and Their Relationship to Temperature as Recorded in Low Latitude Ice Cores. *Geological Perspectives of Global Climate Change*. Eds. Gerhard, L. C., W. E. Harrison and B. M. Hanson. Vol. 47. *Aapg Studies in Geology*. Tulsa: American Association of Petroleum Geologists in collaboration with the Kansas Geological Survey and the AAPG Division of Environmental Geosciences, 99-119.
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- Natur & Vetenskap*: (in German) March 1998, p. 11: Story of Dasuopu expedition, China.
- Time*: February 16, The Fury of El Nino by Madeleine Nash.
- Natural History Magazine*: February 1998, (Lead story) Thompson's Ice Corps by: Mark Bowen pp.28-41.
- 1997 *Chemical and Engineering News*: (Cover issue on Global Warming): Climate Observations Substantiate Global Warming Models by Bette Hileman pp. 18-23.
- 1996 *Earth*: October 1996, Tropics on Ice. By John Fleischman. pp. 38-46.
- Discover*: December 1996: In Deep Water by Robert Kunzig pp. 86-95.
- Earth: The Science of Our Planet* February 1996 issue: (Earth Beat).
- Thompson, Lonnie G. *Paleoclimate and Environmental Variability Revealed by Ice Core Analysis-Overview*. Nagoya, Japan: Nagoya University.
- 1995 *Earth*: Winter in Paradise by Keay Davidson (Overview of the Huascarán ice core records). pp. 20-60.

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- Thompson, Lonnie G. Testimony to the U.S. Senate on Indications of Global Warming from Tropical and Subtropical Ice Cores. Congressional Record: 9.
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- 1991 Thompson, Lonnie G. Initial Global Perspective of Climate for the Last Thousand Years: The Ice Core Record. Proceedings of the Seventh Annual Pacific Climate (PACLIM) Workshop, April 1990. Ed. J. L. Betancourt, and V. L. Tharp. California Department of Water Resources. Interagency Ecological Studies Program Technical report 26, 147-151.
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- 1987 Thompson, P. A., Lonnie G. Thompson, & E. Mosley-Thompson. Hindcasts of El Niño Events in the 19th Century. The Ohio State University.
- 1982 Thompson, Lonnie G., & E. Mosley-Thompson. Spherical Particles in Antarctic Ice Cores: Workshop on Antarctic Glaciology and Meteorites.
- 1981 Jezek, K. C., & Lonnie G. Thompson. Interpretation of Mono-Pulse Ice Radar Soundings on Two Peruvian Glaciers: International Geoscience and Remote Sensing Symposium (IGARSS'81).
- 1978 Thompson, Lonnie G. *Glaciologia Del Glaciar Peruano De Quelccaya*. Lima, Peru: IV Congreso Peruano de Geologia.
- Thompson, Lonnie G., & G. McKenzie. Origin of Glacier Caves in the Quelccaya Ice Cap, Peru. *NSS Bulletin* 41: 15-19.
- 1976 Thompson, Lonnie G. Microparticles, Ice Sheets and Climate. *Ph.D. dissertation. The Ohio State University*: 200.
- 1973 Thompson, Lonnie G. Analysis of the Concentration of Micro-Particles in an Ice Core from Byrd Station, Antarctica. The Ohio State University Research Foundation, Institute of Polar Studies Report 46: 43.

Media Appearances, Productions and Related Public Engagement (85)

2018 *Bigger, Faster Avalanches, Triggered by Climate Change: A deadly 2016 glacier collapse in Tibet surpassed scientists' expectations – until it happened again. They worry it's only the beginning.* **New York Times**. Kendra Pierre-Louis. January 23.

StoryCorps Interview. Selected 39 minute *StoryCorps* interview for AGU Centennial. Lonnie Thompson and Ellen Mosley-Thompson.

2017 *One Cool Couple*, Columbus Metropolitan Club Panel Discussion on Ice Core Research with Frederic Bertley, CEO of COSI. **The Boat House**, Confluence Park. November 8. Columbus, Ohio.

An Integrated Approach to the Himalayas: Repost on the Working Group on the Himalayan Region. Research used by Senator Sheldon Whitehouse to the Hudson Institute. October 31. Washington, DC.

Film Interview for CTV Columbus Television. **WOSU** through Ohio Channel and **WCBE 90.5 radio**. Columbus, Ohio.

Climate scientists present their best arguments for man-made global warming. Featured Lonnie Thompson. Story by Marion Renault. **The Columbus Dispatch**, January 23.

2016 *Climate Change Is Melting 'The Roof of the World.'* Featured expert: Lonnie Thompson, Distinguished University Professor, School of Earth Sciences, and research scientist at the Byrd Polar and Climate Research Center. Story by Ben Guarino. **The Huffington Post**, December 13.

A Tibetan glacier mysteriously collapsed and killed 9. Now researchers offer answers. Featured Tian Lide and Lonnie Thompson. Story by Dominique Mosbergen. **The Washington Post**, December 12.

Climate change likely caused deadly 2016 avalanche in Tibet, researchers say. Featured Lonnie Thompson. Story by Pam Frost Gorder. **Phys.org**. December 9.

Trump's pledges to reverse climate-change policies worry some. Featured Lonnie Thompson. Story by Marion Renault. **The Columbus Dispatch**, November 19.

WBNS-10TV. Interview with Lonnie Thompson, conducted after Sierra Club lecture on November 15th.

Rapid glacier fall a deadly mystery. Featured Lonnie Thompson. **Science Magazine**. September 2.

2015 *Duets in the College of Arts and Sciences*. Interview with Lonnie G. Thompson and Ellen Mosley-Thompson, **The Ohio State University**, Columbus, Ohio

Down to Earth with Glaciologist Lonnie Thompson. Article in **EARTH Magazine**, February 2015, www.earthmagazine.org, pgs. 54-56.

The Polar Times January 2015.

Glacier Balance by Lonnie G. Thompson. Vol.13, No. 26 p. 12-13.

Catholic Conference of Ohio. Laudato Si': on Care for our Common Home. Panel Discussion with **Cardinal Peter Turkson**, President, Pontifical Council for Justice and Peace October 31st, 2015

2014 Invited showing of the **WOSU Network's Ice Core Research and Preservation and NOVA Now's, The Life and History of Lonnie Thompson and the Ice Core Paleoclimate Research Group** at The Ohio State University, School of Earth Sciences Mini Symposium, November 13, Columbus, Ohio.

Panelist for the Q&A for the film Chasing Ice by Jeff Orlowski at the **Columbus Metropolitan Library**, November 12, Columbus, Ohio.

Screening of the Ethan Steinman Film entitled Glacier Balance and participation in the Q&A. **Koshland Museum**, November 6, Washington, D.C.

Dispatch Intergovernmental Panel on Climate Change report release comments in story: *Global warming heads 'out of control'*. Story by Dean Narciso. **Columbus Dispatch**, April 1, Columbus, Ohio.

WCMH NBC 4 evening news. Interview at the Ohio Statehouse on climate change, Columbus, Ohio, March 18.

NBC program, Matters of the Heart, WCMH Channel 4. Columbus, Ohio, February 27.

2013 **CBC Broadcasting** (Canadian), Ice Cores, Climate Change and People. August 8.

2012 **NTN24 International News Channel for Latin America**, the Caribbean, U.S. and Europe, part of discussion on sea ice, why it is shrinking in the Arctic and growing in the Antarctic. October 25.

WBTE Public Television, Knowledge Stream, live stream of Invited Public Lecture at Toledo Zoo's Museum of Science Climate Change Symposium, *Global Climate Change: An Inconvenient Truth meets the Inconvenienced Mind*, October 31, Toledo, Ohio.

ABC's Pacific Mornings, Radio Australia, discussing the Papua, Indonesia New Guinea ice fields. October 1.

CNN International, Interview with Christine Amanpour, The glacier evidence for climate change, New York, New York, July 31.

New York Times, A Climate Scientist Battles Time and Mortality: Overview of Lonnie G. Thompson's life accomplishments and battle with congestive heart failure. Front page story, July 3.

Science Café, Knoxville Tennessee, showing of NOVA NOW, Documentary on Tropical Glacier Research and Lonnie G. Thompson. Show was followed by 1 hour of questions and answers via Skype.

2011 **onEarth magazine**, published by the Natural Resources Defense Council, Life and Death in a dry land: Peru's long term survival depends on water from the glaciers of the high Andes. The problem is that all of the ice will soon be gone. By George Black, pg. 27-42, Winter issue.

Film, *Civilizations Lost*, **The History Channel**, December.

CIRMOUNT (Consortium for Integrated Climate Research in Western Mountains), Climate Records from Ice Cores Drilled in Papua, New Guinea, Vol. 5, No. 2, Autumn 2011 issue.

Melting Mountain Glaciers, **NBC Learn**, air date March 18.

2009 **Glacier Balance: Creeping Normalcy**, Charging Bull Films, Argentina. Filmed on Hualcán and Copa during 2009 Cordillera Blanca drilling season.

Against All Odds, a documentary of the history and contributions of Lonnie Thompson and his research team. **PBS**.

Climate and Civilization: A Documentary. Series under production by **Climatic Productions/Cream Productions**, Toronto, Ontario.

Chasing Glaciers, a feature length documentary for theatrical, DVD and online distribution filed on November 21 by the **Matter Group**.

Hot Cities: Meltdown, filmed during the 2009 Hualcán-Copa expedition, aired by **BBC** on November 14.

2012: *Countdown to Armageddon*, filmed by **National Geographic Channel** during 2009 Quelccaya expedition, aired on PBS and National Geographic Channel on November 8.

NOVA Now - *The Life and History of Lonnie Thompson and the Paleoclimate Ice Core Group at The Ohio State University* aired on PBS July 28.

2008 Pioneer Productions; *A Global Warning?* **The History Channel**.

Flight 33 Production **Discovery Channel** on the 5,200 year abrupt climate change.

Japanese TBSL Production 1 hour special on Tropical ice cores and Kilimanjaro.

Challenges of Global Warming, 1 hour interview **NHK Japanese Public Television**.

German Public television on Global Meltdown.

PBS Jean-Michel Cousteau Ocean Adventures *Return to the Amazon*.

Frontline 2 hour special on climate and energy entitled: *Heat*.

Jean-Michel Cousteau Ocean Adventures: *Return to the Amazon*. Two Hour **PBS/KQED TV** (Northern California Public Broadcasting).

TreeHugger Interview: *Lonnie Thompson, Glaciologist and Climate Change Warrior* (May).

DVD Society of Environmental Journalist and the Metcalf Institute for Marine and Environmental Reporting entitled, *New Executives Roundtable: Covering Climate Change*, Stanford University.

Discovery Channel Special on the 5,200 year Abrupt Climate Event: “*Biblical Mysteries Explained*”

Global Warming and the Ohio State University Paleoclimate Ice Core Research, a one hour special to air on **NHK Japan Broadcasting Corporation**.

Global Warming impact on Glaciers and People of Peru. **Planetwatch**. UK Special.

Neil Katz, **CBS News**, *Global Warming and Glacier Retreat in the Peruvian Andes*.

Peruvian Press: Whole page in El Comercio on glacier and ice core research in the Andes of Peru entitled, *El Defensor de los Glaciares* June 18, and Somos Magazine page 36-42, entitled, *Guardian del Hielo*.

2007 Open Line Host with Fred Andriele 10:00-11:00am, December 5, **WOSU radio**.

Habitable Planet: A Systems Approach to Environmental Science. Annenberg Channel Broadcast November 20, Annenberg Media, a **Harvard-Smithsonian Center Production**.

A Global Warning, History Channel, November 11th, Pioneer Productions, Voyager House London, UK.

NBC Nightly News, *Glaciers & Water*, September.

PBS, Europe, *Climate, Glaciers and Water*.

NOVA, Focus on career of Lonnie Thompson, September.

Frontline, Business & Climate.

Cousteau, Inc. *Revisiting the Amazon River 25 years later*, December.

CNN Morning Show with Miles O'Brien, aired on January 28 in advance of IPCC release on February 2.

2006 **IMAX Film**: *The Ice Age*, Science Advisory Board.

AI Gore Film: *An Inconvenient Truth*. Science Advisory Board.

60 Minutes, *Meltdown*, 15 news reports on the science of ice core research and retreating glaciers. Featured Lonnie's Ice Core Group and in field interview with Lonnie on the Athabasca Glacier in Canada. Aired on September 4.

American Association for the Advancement of Science briefing to the U.S. Congress. *The Present Impacts of Climate Change*, May 4.

CNN - Presents: Global Warming: One hour special, March.

BBC - Horizon: The Lost Civilization of Peru, March.

Production Climate change and loss of the tropical glaciers: American Natural History Museum production to show in 2005 in **New York Natural History Museum** as well as 20 museums around the world.

2004 The Byrd Polar Research Center and The John Glenn Institute for Public Service and Public Policy. April 21.

Facilitator and Host for former Vice President Al Gore's lecture for the 62nd Annual Bownocker Lecture series of the Department of Geological Sciences.

Weather Channel: Climate Change documentary. Filmed: January 29-30.

2003 **BBC Film** on Climate and History: Aired in U.S. on Discovery Channel on October 19.

2002 **National Geographic Channel:** Science Times: Kilimanjaro's Vanishing Ice, March.

2001 **CNN** presents America's Best Science and Medicine, August.

Science, March 2, volume 291. The biggest *Science* news story to come out of The Ohio State University, as measured by TV, newspaper and magazine coverage. CNN, CBS, NBC, BBC etc.

AAAS paper: Disappearing Glaciers: Evidence of a Rapidly Changing Earth. The dramatic findings, splashed on the front pages and the evening news, may spur policy makers and the public far more than abstract warnings of climate trends, says Will Steffen, Director of the International Geosphere-Biosphere Program in Stockholm, Sweden.

2000 *Science*, September 15th, paper: A High-Resolution Millennial Record of the South Asian Monsoon from Himalayan Ice Cores. Thompson, L.G. et al., 289, 1916-1919. (*Chosen as one of the Top 50 Discoveries by Discover Magazine for the 2000*).

National Geographic/PBS documentary: *Sunstorms*, May 23.

1999 **ABC special** *Storms* filming at The Ohio State University, January.

A & E Television special *Global Warming* with filming in Peru and The Ohio State University, August 1999, *Investigative Reports: Earth in the Hot Seat!*

1998 *Science Frontiers* Ends of the Earth--Climatic Catastrophe, October 28: Featuring OSU ice core research.

El Nino, **The Learning Channel.**

Climatic Chaos, **Nova** 1998.

Peter Jennings's Reporting, March, 11, Global Warming: The Science and Politics.

Selection of Online Videos

- Tibetan Guliya Expedition film, shown at the Ohio Peace **Short Film** Festival at the Gateway Theater, Columbus OH, 2016.
<https://vimeo.com/164485595>
- CNN International Interview with Christine Amanpour, 2012
<https://www.youtube.com/watch?v=p48A5QLI1ZM>
- But For Ohio State, 2013, <https://www.youtube.com/watch?v=mGkb7vngQyo>
- Professor Thompson on climatology and his heart transplant at Ohio State's Wexner Medical Center, 2013, <https://www.youtube.com/watch?v=63OGLtbC5XM>
- Lonnie describes his life's mission to retrieve the climate record in tropical glaciers from the world's highest mountains before they melt, 2012
<http://thiniceclimate.org/blog/details/2009/shrinking-tropical-glaciers-lonnie-thompson>

- Alumni Distinguished Achievement Award, College of Arts and Sciences, The Ohio State University, 2012, <https://www.youtube.com/watch?v=IAuRiqgAl0w>
- WOSU Public Media, Interviews with Lonnie G. Thompson and Ellen Mosley-Thompson, 2011
 - (1) Lonnie and Ellen Mosley-Thompson Describe Drilling Expeditions <https://www.youtube.com/watch?v=vzx6B1Lg2Qs>
 - (2) Ice Core Discoveries at Byrd Polar Research Center <https://www.youtube.com/watch?v=78ZBp1tih1A>
 - (3) Global Climate Change Research at Bryd Polar Research Center <https://www.youtube.com/watch?v=ibNs0V-bjCk>
 - (4) Collecting History Before it Melts Away <https://www.youtube.com/watch?v=gWSBkedAMZE>
- Ice Core Research and Preservation, WOSU Public Media, 2010
 - (1) https://www.youtube.com/watch?v=miRC3pf_42U
 - (2) <https://www.youtube.com/watch?v=YCatVJgOHKq>
- Inspiring West Virginians – The Ice Hunters, Documentary Profile, West Virginia Public Broadcasting, 2010, <https://www.youtube.com/watch?v=eNmYLvvE7iQ>

Papers Presented at Professional Meetings (146 total)

2017 Co-Chair AGU Session: Third Pole Environment (TPE) under Global Changes I and II. December 14. New Orleans, Louisiana.

Decadal to Centennial-scale climate changes over the last millennium recorded in Third Pole glaciers, with emphasis on new ice core records from the Guliya ice cap.

Thompson L.G., T. Yao, M.E. Davis, E. Mosley-Thompson, G. Wu, S.E. Porter, , B. Xu, D. V. Kenny, N. Wang, E. Beaudon, K. Duan, P-N. Lin, R Sierra-Hernandez. AGU Fall Meeting. December 14. New Orleans, Louisiana.

GC41G-03 Central Tibetan Plateau atmospheric trace metals contamination: a 500-year record from the Puruogangri ice core. E. Beaudon, P. Glabrielli, R. Sierra Hernandez, A. Wegner, L.G. Thompson. AGU Fall Meeting. December 14. New Orleans, Louisiana.

A42B-02 A Paleo Perspective on Arctic and Mid-latitude Linkages from a Southeast Alaska Ice Core. Stacy Porter, Ellen Mosley-Thompson, Lonnie Thompson, and John Bolzan. December 14. New Orleans, Louisiana.

GC41G-01 Decadal to centennial-scale climate changes over the last millennium recorded in Third Pole glaciers, with emphasis on new ice core records from the Guliya ice cap. Lonnie G Thompson, Tandong Yao, Mary E Davis, Ellen Mosley-Thompson, Guangjian Wu, Stacy E. Porter, Baiqing Xu, Donald V Kenny, Ninglian Wang, Emilie Beaudon, Keqin Duan, Ping-Nan Lin and Roxana Sierra-Hernandez. December 14. New Orleans, Louisiana.

C33D-1239 *Comparison of glacier loss on Qori Kalis, Peru, and Mt. Kilimanjaro, Tanzania over the last decade using digital photogrammetry and stereo analysis.* Kara Lamantia (advisor). December 13. New Orleans, Louisiana

PP14B-01 *Low latitude ice core evidence for dust deposition on high altitude glaciers.* Paolo Gabrielli and Lonnie Thompson. December 11. New Orleans, Louisiana.

A130-05 *Atmospheric Depositions of Natural and Anthropogenic Aerosols on the Guliya Ice Cap (Northwestern Tibetan Plateau) during the last 340 years.* Rozana Sierra Hernandez, Paolo Gabrielli, Emilie Beaudon, Lonnie Thompson, and Anna Wegner. December 11. New Orleans, Louisiana.

2016 Co-Chair AGU Session: Third Pole Environment (TPE) under Global Changes I, II, III. December 12. San Francisco, California.

Co-Convener of the Third Pole Environment (TPE) under Global Changes, AGU Fall Meeting. December 12. San Francisco, California.

Porter, S.E., E. Mosley-Thompson and L.G. Thompson. Ice core-derived histories of North Pacific climate variability. 96th Annual AMS Meeting, New Orleans, LA. Jan. 2016.

2015 Co-Convener and Chair of GC22E, *The Third Pole Environment* (TPE) under Global Changes II Session December 15th, 2015 AGU Fall Meeting, San Francisco, California. Convener and Chair of U42A: *Mountains without Permanent Snow and Ice: Current Impacts and Implications for the Future of Mountain Environments and Areas Downstream.* AGU Fall Meeting, San Francisco, California.

High-amplitude, Centennial-scale Climate Oscillations During the Last Glacial in the Western Third Pole as Recorded in the Guliya Ice Cap, L.G. Thompson, T.Yao, E.Mosley-Thompson, G. Wu, M.E.Davis, L.Tian and P.-N. Lin. AGU Fall Meeting. San Francisco, California.

Glacial Melt on the Third Pole. T.Yao, L.G.Thompson. AGU Fall Meeting, San Francisco, California.

Spatial Pattern of the Glacier Shrinkages over the Tibetan Plateau since the Little Ice Age and the Role of the Summer Freezing Level. N. Wang, T. Yao, L.G. Thompson and E.Mosley-Thompson AGU Fall Meeting, San Francisco, California

A 3000 year lake sediment record of local and synoptic Indian summer monsoon variability from the southeastern Tibetan Plateau. B.W. Bird, P. J. Polissar, Y.Lei, T. Yao, B. Finney, D.Bain, D.P. Pompeani, B. A. Steinman and L.G. Thompson. AGU Fall Meeting, San Francisco, California.

The Climatic Changes Responsible for the Disappearance of Tropical Mountain Glaciers and the Societal Consequences. GSA Annual Meeting, Baltimore, Maryland

XII International Symposium on Antarctic Earth Sciences. Global Climate Change: ENSO and Black Swans: A Paleoclimate Perspective from the World's Highest Mountains. July 13-17, 2015, Goa, India.

Porter, S.E. E. Mosley-Thompson and L.G. Thompson. A history of Western Arctic sea ice extent: A tale of two ice cores. 95th Annual AMS meeting Jan. 2015.

Donaldi Permana Dissertation: Reconstruction of Tropical Pacific Climate Variability from Papua Ice Cores, Indonesia. 2015; 251 pp.

2014 Co-Covener: AGU Annual Meeting Session: Global Changes 1 (along with Tandong Yao, Bernd Wüennemann and Volker Mosbrugger. December 18, San Francisco, California.

Wegner A., P. Gabrielli, J.D. Barker, R. Sierra Hernandez, E. Beaudon, L.G. Thompson (Lonnie Thompson, presenter).. *Two Centuries of Trace Element De³position at the Top of the Himalaya: Natural Background vs. Anthropogenic Pollution* (Invited), In The Third Pole Environment, Global Changes II, AGU Meeting, December 17, San Francisco, California.

Lonnie G. Thompson, Donaldi Permana, Ellen Mosley-Thompson and Mary Elizabeth Davis (presenter, Lonnie Thompson). *Climatic Teleconnections Recorded by Tropical Mountain Glaciers*. In Climate Change in Mountains: Elevational Dependency and Diverse Impacts 1, AGU Meeting, December 16, San Francisco, California.

Ninglian Wang, Tandong Yao, Lonnie G. Thompson (Lonnie Thompson, presenter). *Dust Records in Ice Cores from the Tibetan Plateau* (Invited), In Climate Change in Mountains: Elevational Dependency and Diverse Impacts 1, AGU Meeting, December 16.

APECS Cryosphere Career panel discussion participant. AGU Meeting, December 17, San Francisco, California.

Ellen Mosley-Thompson, Lonnie G. Thompson, Stacy E. Porter, Bradley P. Goodwin and Aaron Wilson (Lonnie Thompson, presenter). *Valuable Insights from Concordant and Discordant ice Core Histories* (Invited) in Global Climate Change and Cryospheric Systems 1, Global Climate Change: AGU Meeting, December 17, San Francisco, California.

Bird B.W, P.J. Polissar, Y Lei, L.G., Thompson, T.Yao , B. Finney, D. Bain, D.P. Pompeani, and B.A. Steinman (Lonnie Thompson, presenter). *Lake Sediment records of Indian summer monsoon variability during the Medieval Climate Anomaly and Little Ice Age: Support for a late Holocene pluvial event on the southeastern Tibetan Plateau* (Invited) in Global Climate Change and Cryospheric Systems 1, Global Climate Change: AGU Meeting, December 17, San Francisco, California.

Lonnie Thompson, Ellen Mosley-Thompson, M.E. Davis, Don. V. Kenny and P.N. Lin (Lonnie Thompson, presenter). *Climate, ENSO and Black Swans over the Last Millennium*. AGU Meeting, December 18, San Francisco, California.

Lonnie G. Thompson, Ellen Mosley-Thompson, Mary E. Davis, Don Kenny and Pingnan Lin (Lonnie Thompson, presenter). *Third Pole climate linkages documented by ice core-derived stable isotopes, ENSO, droughts and human history over the last millennium*. 5th Third Pole Environment Workshop, *Third Pole Environment: The Dynamics and Global Linkages*, Max-Planck-Gesellschaft, December 8, Berlin, Germany.

Anna Wegner, Paolo Gabrielli, Joel D. Barker, Roxana Serra, Emilie Beaudon, Lonnie G. Thompson (Lonnie Thompson, presenter). *Two Centuries of trace element and black carbon deposition at the top of the Himalaya: natural background vs. anthropogenic*

pollution. 5th Third Pole Environment Workshop, *Third Pole Environment: The Dynamics and Global Linkages*, Max-Planck-Gesellschaft, December 9, Berlin, Germany.

E. Beaudon, P. Gabrielli, R. Sierra Hernandez, A. Wegner, L.G. Thompson. AGU Poster in The Third Pole Environment, Global Changes II. *Characterization of atmospheric trace elements in the Puruogangri ice core: a preliminary account of Tibetan Plateau environmental and contamination histories*, AGU Meeting, December 18, San Francisco, California.

R. Sierra Hernandez, P. Gabrielli, E. Beaudon, A. Wegner, L. G. Thompson. AGU Poster in The Third Pole Environment, Global Changes II. *Trace Element Determination from the Guliya Ice Core to Characterize Aerosol Deposition over the Western Tibetan Plateau during the Last 500 Years*, AGU Meeting, December 18, San Francisco, California.

2013 Co-Convener: Session: Environment and Eco-system Changes in the Third Pole and Other Mountain Regions I & II (GC32B and GC31E). Fall AGU 2013, December 9-13, San Francisco, California.

Thompson. L.G., E. Mosley-Thompson, M.E. Davis, D.V. Kenny and P.-N. Lin. Two Extreme Climate Events of the Last 1000 years Recorded in Himalayan and Andean Ice Cores: Impacts on Humans. (Keynote). AGU Fall Meeting, December 9-13, San Francisco, California.

Thompson L.G., T. Yao, E. Mosley-Thompson, M.E. Davis and P.-N. Lin. Complexity of Himalayan Glacier Response Today and in the Past. (Invited) AGU Fall Meeting, December 9-13, San Francisco, California.

Zhi Liu, T. Yao; L.G. Thompson, V. Mosbrugger, F. Zhang, Y. Ma, X. Yang, W. Wang, D. Joswiak, X. Liu, L.P. Devkota, S.Tayal and T. Luo. Third Pole Environment (TPE): A new frontier for interdisciplinary research. AGU Fall Meeting, December 9-13, San Francisco, California.

Bird, B.W., P.J. Polisar, Y. Lei, L.G. Thompson, T. Yao, B.P. Finnery, D. Bain, D. Pompeani, B.A. Steinman. A Tibetan Lake Sediment Record of Holocene Indian Summer Monsoon Variability. AGU Fall Meeting, December 9-13, San Francisco, California.

Wegner A., P. Gabrielli, J. Barker, and L.G. Thompson. A new trace element record from the Himalayan Dasuopu Ice Core covering the past 2 centuries: Preliminary results. Fall AGU 2013, December 9-13, San Francisco, California.

Donnellan, A., J. Green, B. Bills, J. Goguen, A. Ansar, E. De Jong, T. Painter, R. Knight, B. Hallet, T. Scambos, L.G. Thompson and P. Morin. Global Monitoring of Mountain Glaciers Using High-Resolution Spotlight Imaging from the International Space Station. AGU Fall Meeting, December 9-13, San Francisco, California.

E. Mosley-Thompson, B.P. Goodwin, R. Sierra, P. Lin, D. Miller, L.G. Thompson, D.V. Kenny, Climate Variability in the Antarctic Peninsula: Insights from the 2010 Bruce Plateau Ice Core. AGU Fall Meeting, December 9-13, San Francisco, California.

Uglietti, C. P. Gabrielli, L.G. Thompson. Detailed history of atmospheric pollution in South America as recorded by trace elements in the Quelccaya ice core. AGU Fall Meeting, December 9-13, San Francisco, California.

P. Gabrielli and 18 others including L.G. Thompson. Revealing a high altitude paleoclimate record from Southern Europe. AGU Fall Meeting, December 9-13, San Francisco, California.

Pardee Keynote Sessions: 125th Anniversary of GSA. Earth's Climate History as Recorded in Glaciers and Ice Caps on the World's Highest Mountains. Denver, Colorado, October 27-30. (Invited)

Zangorodnov, V. and L.G. Thompson. Ice coring of polythermal glaciers. 7th International Workshop on Ice Drilling Technology, September 9-13, Pyle Center, University of Wisconsin, Madison, Wisconsin.

Zagorodnov, V., S. Tyler, D. Holland, A. Stern, L.G. Thompson, C. Sladek and S. Kobs. Thermodynamics of access boreholes in Ross Ice Shelf studied with DTS sensors. 7th International Workshop on Ice Drilling Technology, September 9-13, Pyle Center, University of Wisconsin, Madison, Wisconsin.

Zagorodnov V., L.G. Thompson, S. Tyler, V. Mikhalevko. New applications of hot point drills. 7th International Workshop on Ice Drilling Technology, September 9-13, Pyle Center, University of Wisconsin, Madison, Wisconsin.

Zagorodnov, V., L.G. Thompson. Mechanical ice core drilling at temperatures close to the pressure melting point. 7th International Workshop on Ice Drilling Technology, September 9-13, Pyle Center, University of Wisconsin, Madison, Wisconsin.

Blanca Leon, K. R. Young, M. Arakai, B.A. Gould and L.G. Thompson. Retroceso glaciario y las oportunidades de entender el pasado I, Symposium of Paleontology, September 7, Lima, Peru.

Uglietti C., P. Gabrielli, L. Thompson, Detailed history of atmospheric pollution in South America as recorded by trace elements in the Quelccaya Ice Core. Goldschmidt Conference, August 25-30, Florence, Italy.

Gabrielli, P. and 19 others including L.G. Thompson, Revealing a high altitude paleoclimate record from Southern Europe. Goldschmidt Conference, August 25-30, Florence, Italy.

Thompson L.G., T. Yao, E. Mosley-Thompson and P.-N. Lin. Large-scale teleconnections as recorded in climate records of low-to mid-latitude mountain glaciers. International Glaciological Society, Beijing, China, Keynote, July 30.

2012 Cold ice relicts embedded in apparently temperate glaciers contain intact climate records. Authored by the Ortles Project Community Members (Lonnie G. Thompson, Member), International Partnership in Ice Core Science Meeting.

Kehrwald, N.M., P. Zennaro, R. Zangrando, P. Gabrielli, L.G. Thompson, M.E. Davis, E. Barbaro, A. Gambaro and C. Barbante. Fire in Ice: Implications for the Global Carbon Cycle.

Mosley-Thompson, E.S., Thompson, L.G. Global cryospheric loss: An overview of the issue. EcoSummit, 2012. October 1, Columbus, Ohio.

Bird, B.W., Y. Lei, L.G. Thompson, T. Yao and B. Finney. Long-term and abrupt Holocene climate change on the southeastern Tibetan Plateau from a decadal resolved lake sediment record. AGU Fall Meeting.

Tandong, Y., L.G. Thompson, V. Mosbrugger and Y. Sheng. Conveners of session GC051. The Third Pole Environment (TPE) under Global Changes for the AGU Fall Meeting.

Porter, S.E., E. Mosley-Thompson and L.G. Thompson. Evidence for Pacific Climate Regime Shifts as Preserved in a Southeast Alaska Ice Core. AGU Fall Meeting.

Thompson, L.G., T. Yao, E. Mosley-Thompson and P.- N. Lin. Long-distance relationship between large-scale tropical SSTs and ice core-derived oxygen isotopic records in the Third Pole Region. AGU Fall Meeting.

2011 Thompson, L.G., Yao, T., Mosley-Thompson, E.S. and Davis, M.E. Third Pole Glaciers and Ice Core Records of Past, Present and Future Climate (invited). EOS Trans. AGU.

Thompson, L.G., Mosley-Thompson, E.S. and Davis, M.E. Tropical Glaciers in the Common Era: Papua, Indonesia, Quelccaya Ice Cap, Peru and Kilimanjaro, Tanzania (invited). EOS Trans. AGU.

Makou, M., Thompson, L.G., Davis, M.E. and Eglinton, T.I. A century of Amazon burning driven by Atlantic climate. EOS Trans. AGU.

Wang, N., Yao, T. and Thompson, L.G. Study on the influence of monsoon, westerly and snow cover on the dust concentration in snow in the Himalaya as reflected by the Dasuopu ice core record. AGU (poster).

Bird, B., Yanbin, L., Thompson, L.G. and Yao, T. Lacustrine records of late Holocene climate change in the southeastern Tibetan Plateau, Nyainqentanglha Mountains: Initial sedimentology and chronology results. AGU (poster).

Buffen, A.M., Hastings, M.G., Thompson, L.G. and Mosley-Thompson, E.S. Assessing post-depositional alteration and the integrity of ice core nitrate-N and $\delta^{18}O$ isotopic records at the Quelccaya Ice Cap, Peru. AGU (poster).

Thompson, L.G. Third Pole Glaciers, Recorders and Indicators of Climate Change, Third Pole Environment (TPE) Workshop, Volume 3, August 29-September 1, Reykjavik, Iceland.

Thompson, L.G. A glacier Paleoclimate Perspective for the Holocene from the World's Highest Mountain. INQUA Quaternary Sciences, The View from the Mountains, July 21-27, Bern, Switzerland (invited).

Jensen, B.J.L., Cooke, C.A., Froese, D.G. and Thompson, L.G. Regional correlation of the AD 1600 Huaynaputina tephra: Integrating archaeological, ice core and lacustrine records. INQUA Quaternary Sciences, The View from the Mountains, July 21-27, Bern, Switzerland.

Kehrwald, N., Zangrando, R., Thompson, L.G., Zennaro, P., Barbaro, E., Gambaro, A. and Barbante, C. Decadal-scale changes in East Africa fire activity for the past 4000 years. INQUA Quaternary Sciences, The View from the Mountains, July 21-27, Bern, Switzerland (poster).

Thompson, L.G. Climate Change: The Evidence and Our Options, Charles David Keeling Memorial Lecture abstract, University of San Diego, California, May 9.

- 2010 Gabrielli, P., Kehrwald, N.M., Cozzi, G., Barbante, C., Thompson, L.G., Determination of atmospheric trace elements in Kilimanjaro ice to reconstruct regional African aerosol history. AGU (poster).
- Kehrwald, N.M., Zangrando, R., Gabrielli, P., Gambaro, A., Thompson, L.G. Barbante, C., Fire activity in Eastern Africa during the last 4000 years EOS Trans. AGU.
- Kehrwald, N., Zangrando, R. Gambaro, A., Cescon, P., Thompson, L.G., Gabrielli, P., Barbante, C., Fire emission reconstruction in Africa during the last 500 years; A pilot study, Geophysical Research Abstracts, 12 EGU 2010-1866.
- Kehrwald, N., Zangrando, R., Gambaro, A., Cescon, P., Thompson, L.G., Gabrielli, P., Barbante, C., Organic biomarkers reconstruct regional fire history in Kilimanjaro ice cores, Global Change and the World's Mountains Proceedings, Perth, Scotland, September 20-30.
- Thompson, L.G. T. Yao, M. Davis and E.S. Mosley-Thompson. (2010) Ice core records of past climate and evidence for present and future glacier loss across the Third Pole. EOS Trans. AGU.
- Bird, B. W., L.G. Thompson, T. Yao (2010) At the gates of Indian Summer Monsoon: Reconstructing 2000 years of Indian Summer Monsoon variability from high-resolution Tibetan Lake Sediments, Eastern Himalaya. AGU (poster).
- Thompson L.G., E.S. Mosley-Thompson, M.E. Davis, P. Lin (2010) A 1700-year record of tropical sea surface temperatures and high-altitude Andean climate derived from the Quelccaya Ice Cap, Peru (invited) EOS Trans., AGU.
- 2008 Thompson, L.G., Thompson, E.M., Buffen, A., Urmann, D., Davis, M. and Lin, P-N. *Tropical Glaciers: Recorders and Indicators of Climate Change*, EOS Trans., AGU, 89 (53) Fall Meet. Suppl. Abstract GC12A-05, invited.
- Thompson, L.G., Yao, T., Davis, M., Kehrwald, N. and Thompson, E.M. *Tibetan Glaciers as Integrators and Sentinels of Climate Change*, EOS Trans., AGU, 89 (53) Fall Meet. Suppl. Abstract GC11B-07, invited.
- N. Graham, J. Esper, D. Frank, M. Hughes, L. Thompson, V. Trouet. *A stronger winter NAO during Medieval time: European/North Atlantic climate during the past millennium as seen in proxy-guided coupled model-based reconstructions*. EGU. Jones and Mann Session.
- 2007 Thompson L.G. Frontiers of Geophysics Lecture U35A: *Abrupt Climate Change and Our Future*. AGU Fall Meeting. Dec 12. San Francisco, California (invited).
- Thompson, L. E.S. Mosley-Thompson, M.E. Davis, D. Urmann, A. Buffen Ice Core Evidence for Amplification of the Recent Warming at High Elevations in the Tropics and the Likely Regional Impacts. AGU Fall Meeting, December 14. San Francisco, California (invited).
- Thompson, L.G., M.E. Davis, T. Yao, N. Kehrwald, P. Lin. *Ice-Core Evidence of Holocene Climatic and Environmental Variations Across Tibet*. AGU Fall Meeting, December 12, San Francisco, California.
- Makou M.C., L.G. Thompson, T.I. Eglinton. *Molecular Markers in the Quelccaya Ice Cap, Peru Describe 20th Century Biomass Burning Variability*. AGU Fall Meeting, December 13, San Francisco, California.

- Thompson L.G., A. M. Buffen, M.E. Davis, N. M. Kehrwald, E. Mosley-Thompson, P.-N. Lin and D. H. Urmann. *1500-year Climate and Environmental Ice-Core Records from the Tropical Pacific Rim*. Workshop on Climatic Changes in the Last 1500 Years: Their Impact on Pacific Islands. NOAA IDEA & East-West Center, November 13-14 (abstract page. 21), Honolulu, Hawaii.
- 2006 Urmann, D., Y.C. Fang and L.G. Thompson. *Tropical Cyclones and Ice Cores: Developing a Long Term Perspective*. Presentation at the American Geophysical Union Annual Meeting, December 14, San Francisco, California.
- Thompson, L.G., E. Mosley-Thompson, M.E. Davis and A. Buffen. *Glaciological Evidence of Temporal and Spatial Tropical Climate Variability*. Invited presentation at the 2006 American Geophysical Union Meeting, December 12, San Francisco, California.
- Kehrwald, N. M., L.G. Thompson and G.A. Schmidt. *Twentieth Century Warming Recorded in Low-Latitude Ice Cores and GISS ModelE*. Presentation at the American Geophysical Union Annual Meeting, December 14, San Francisco, California.
- 2004 Thompson, L.G. The Emiliani Lecture: *Tropical Ice Core Evidence for Rapid Holocene Climate Change and Asynchronous Glaciation*. AGU, 85 (47), Fall Meet. Suppl., Abstract PP33C-01.
- Tandong, Y., L.G. Thompson, M.E. Davis, E.S. Mosley-Thompson, W. Ninglian, T.A. Mashiotta, and X. Baiqing. *A High Resolution Ice Core Record from the Puruogangri Ice Field, Tibetan Plateau*. AGU, 85 (47), Fall Meet. Suppl., Abstract C44A-05.
- Mikhaleenko, V.N., L.G. Thompson, S.S. Kutuzov, S.M. Arkhipov, O.V. Nagornov, and P. Lin. *Recent Climate Change as Documented by Ice Core Evidence, Glacier Retreat, and Borehole Temperatures for the Gregoriev Ice Cap, Central Asia*. AGU, 85 (47), Fall Meet. Suppl., Abstract C51A-1019.
- Mashiotta, T.A., L.G. Thompson, and M.E. Davis. *The White River Ash: New Evidence From the Bona-Churchill Ice Core Record*. AGU, 85 (47), Fall Meet. Suppl., Abstract PP21A-1369.
- Kelley, M.A. and L.G. Thompson. *¹⁰Be dating of lated-glacial moraines near the Cordillera Vilcanota and the Quelccaya Ice Cap, Peru*. AGU, 85 (47), Fall Meet. Suppl., Abstract PP23A-1388.
- Mosley-Thompson, E., C.R. Readinger, L.G. Thompson, P.- N. Lin, and D. Bathke. *Does the PDO affect the climate over Greenland and complicate the reconstruction of NAO variability from ice core records?* AGU, 85 (47), Fall Meet. Suppl., Abstract GC44A-04.
- Thompson, L.G., E. Mosley-Thompson, P.-N. Lin, M.E. Davis, T.A. Mashiotta, and H.H. Brecher. *Low-latitude mountain glacier evidence for abrupt climate changes*. AGU, 85 (47), Fall Meet. Suppl., Abstract C44A-02.
- Thompson, L.G., E. Mosley-Thompson, V. Zagorodnov, M.E. Davis, T.A. Mashiotta, and P.-N. Lin. *1500 years of annual climate and environmental variability as recorded in Bona-Churchill (Alaska) ice cores*. AGU, 85(47), Fall Meet. Suppl., Abstract PP23C-05.
- Thompson, L.G. *Tropical Andean ice core and glacier retreat evidence for abrupt climate change. Second Symposium on Mass Balance of Andean Glaciers Shrinkage in the Andes and Consequences for Water Resources*. July 06-09, Huaraz, Peru. p. 49.

- Brecher, H.H. and L.G. Thompson. *Measurement of the retreat of Qori Kalis Glacier Peru, by terrestrial photogrammetry*. Second Symposium on Mass Balance of Andean Glaciers Shrinkage in the Andes and Consequences for Water Resources. July 06-09, Huaraz, Peru. p. 51.
- Thompson, L.G., E. Mosley-Thompson, H.H. Brecher, M.E. Davis, P.-N. Lin, and T.A. Mashiotta. *Abrupt tropical climate change: past and present*. 1st International Clivar Science Conference. June 21-25, Baltimore, Maryland. Page 188.
- Mosley-Thompson, E. and L.G. Thompson. *High-resolution ice cores provide a multi-century perspective on 20th century climate changes, and Global Warming*. 1st International CLIVAR Conference. June 21-25, Baltimore, Maryland. Page 182.
- Mikhalevko, V.N., L.G. Thompson, S.M. Arkhipov, M.G. Kunakhovich, S.S. Kutuzov, O.V. Nargornov, A.N. Kikikh, and F.F. Faizrahmanov. *Glacier recession in the Tien Shan mountains, Central Asia: Ice-core and borehole temperature evidence*. The 4th International Symposium on the Tibetan Plateau, August 4-7, Lhasa, China. p. 103-104.
- Duan, K., T. Yao, and L.G. Thompson. *Rainfall variability recorded in an ice core from central Tibetan Plateau*. The 4th International Symposium on the Tibetan Plateau, August 4-7, Lhasa, China. p. 94.
- Li, Z., T. Yao, X. Cunde, H. Shugui, L.G. Thompson, and E. Mosley-Thompson. *A primary study of environmental and climatic records in an ice core recovered from glacier no. 1 at Urumqi River Head, Tiahshan, China*. The 4th International Symposium on the Tibetan Plateau, August 4-7, Lhasa, China. p. 97.
- Lee, S. and L.G. Thompson. *Ice Archives of Abrupt Climate Change and Climate Forcing*. The first Annual meeting of Comer Fellows and Mentors, IBM New York, New York, April 14-17.
- Tropical Ice Core and Glacier Retreat Evidence for Abrupt Holocene Climate Change Session 70*. Page 37. Northeast and Southeastern Section: The Geological Society of America. March 25-27, Washington, D.C.
- 2003 *Stable Isotopes on Seasonal to Millennial Time Scales as Recorded in Low-Latitude High-Altitude Ice Cores*. International Symposium on Isotope Hydrology and Integrated Water Resource Management. May 19-23. IAEA-CN 104/155.
- 2002 *Ice Core Evidence of Past Changes in the Hydrological Cycle of the Tropics and Subtropics*. AGU 2002 Fall Meeting. EOS, Transactions, Vol. 83 No.47 F895.
- Tropical and Subtropical Ice Core Climate Records of the Last Two Millennia*. AGU Fall Meeting. EOS, Transactions, Vol. 83, No. 47, F915.
- The Hadley Circulation: Present, Past and Future. *Tropical ice core records of Changes in symmetry, position and/or intensity of Hadley circulation on glacial to interglacial time scales*. Conference Proceedings. pp. 48.
- 2001 Central Andean Paleoclimate Workshop abstract volume. *Climate records from ice Cores in the Central Andes: Records of long and short term tropical teleconnections of temperature and precipitation*. January, pp. 32-33.
- AAAS 2001 Annual Meeting, February 15-20, 2001 Abstract volume: *Disappearing Glaciers Evidence of a Rapidly Changing Earth*. P. A-32.

Extended Abstract: Second Wadati Conference on Global Change and the Polar Climate March 7-9, 2001. *Climate Surprises: Lessons from Tropical Ice Cores*. Pages 47-50. Tsukuba Science City, Japan.

12th International Hypoxia Symposium. *From Genes to Bedside: Disappearing Glaciers: Evidence of a Rapidly Changing Earth*. pp. 19-20.

Proceedings of the International Symposium on Atmosphere-Ocean-Cryosphere Interaction in the Sea of Okhotsk and the Surrounding Environment. *Low Latitude Ice Cores: Contributions to paleoclimatology and understanding climate variability*. Dec. 12-15, 2000 at Institute of Low Temperature Science, Hokkaido University, Sapporo, Japan pp. 124-127. March.

Workshop on Climate Change at High Elevation Sites. *Emerging Impacts (HIGHEST II) Tropical Glacier and Ice Core Evidence of Climatic Change on Annual to Millennial Time scales*. Davos, Switzerland 25-28 June, pp. 63-64.

Global Change Open Science Conference (Amsterdam, The Netherlands, July 10-13, 2001), *Challenges of a Changing Earth. Global Change and Mountain Regions. Tropical Mountain Glaciers: the Melting of the Snows of Kilimanjaro, Quelccaya and Tibet*. Abstracts: p. 68.

Tropical ice core records from the ice fields of Kilimanjaro, ice retreat and synchronous glaciations. Presented at the International Conference on Past Climate Variability through Europe and Africa, Aix-en Provence, France, Abstract volume, p. 24.

2000 *Records of Little Ice Age from mountain ice cores: LDEO NOAA/CORC*. Miniconference on the Little Ice Age and the Medieval Warm period. March 30 and 31, 2000 Lamont/ Columbia University, New York. (Invited).

Climate Records of the tropical ice cores: Laboratory of Ice Core and Cold Regions Environment Cold and Arid Regions. Environmental and Engineering Research Institute, Chinese Academy of Sciences, Lanzhou, China, May 9-15 (invited).

GeoCanada 2000, Climate change revealed from tropical ice cores from mountain glaciers compared with Polar Regions: evidence for asynchronous glaciations. May 29-June 2 (Keynote speaker).

GeoFest 2000, The Ohio Geographic Society-K-12. *Tropical Ice Core Records of Global Warming*. August 8 (Keynote speaker).

London Quaternary Lectures: *Climate Surprises: Lessons from Tropical Ice Cores* December 6, The Centre for Quaternary Research, Department of Geography Royal Holloway, University of London. Sponsored by *Quaternary Science Reviews*.

AGU Fall 2000: Atmospheric Methane Reconstruction over the past 500 years from Low-mid Latitude ice cores: T. Yao, J. Chappellaz, B. Xu, and L.G. Thompson, San Francisco, California, December 15.

1999 *Ice Core Evidence for Tropical Climate Change: The Role of Water Vapor*, 79th American Meteorological Society Meeting. January 10-15, Dallas, Texas (invited).

Ice Core Paleoclimatic Histories: Potential for ENSO Reconstruction. E. M. Thompson, L.G. Thompson, and K. R. Henderson, American Association of Geography, March, Honolulu, Hawaii.

Response of the Dunde Ice-Core Pollen Record to Recent Climatic Changes in the Qinghai-Tibetan Plateau. Zuju Yao, Kam-biu Liu and L.G. Thompson, American Association of Geography, March, Honolulu, Hawaii.

High Altitude, Low-and Mid-latitude Ice Core Records: Implications for our Future Thompson, L.G. American Geophysical Union, Spring, Boston, Massachusetts, p. S142. (Invited)

Tropical Ice Core Records of Past and Current Global Climate Change: Implications for our Future. XV International Congress INQUA, The Environmental Background to Hominid Evolution in Africa. August, Durban, South Africa. P. 2. (Plenary Lecture)

Ice and History: Glacial Records of Climate Change. 59th Annual Meeting: Economic History Association "Shocks." October, Baltimore, Maryland. p. 25. (Plenary Lecture)

Water Vapor and Climate Change: A Tropical Ice Core Perspective. 2nd AGU Chapman Conference on Water Vapor in the Climate System. October, Potomac, Maryland. p.33. (Invited).

1998 Invited participant in the International Science Initiative: Isotopes in the Hydrological Cycle Beatenberg, Switzerland, January 15-17, Presentation, *Record of ENSO in the stable isotope records of Tropical Glaciers* (invited) abstract volume.

PAGES PEP 1 meeting Steering Committee: Paper: *Climate of the Last 2000 years in the Tropical Andes of South America.* March 16-20, Merida, Venezuela (invited) abstract volume. PEP 1 Pole-Equator-Pole Paleoclimate of the Americas (book).

PAGES Open Science Meeting: Senate House, University of London (invited) *Ice core evidence for Climate Change in the Tropics: Implications for our future.* Abstract volume. (Book).

Preliminary Results from an Ice Core Paleoclimate Study of Windy Dome, Franz Jose Land (Russia): Reconstruction of a Sea Ice History for the Barents Sea. K. A. Henderson, L. G. Thompson, V. S. Zagorodnov, S. Arkhipov and V. Mikhalenko, *Sea Ice Charts of the Arctic Scientific Achievements from the first 400 years.* August 5-7, Battelle Seattle Conference Center. Seattle, Washington.

United Nations Development Program lecture tour of China, Opening paper of International Symposium on the Qinghai-Tibet Plateau Xining, China *Ice core evidence for climate change on the Qinghai-Xizang (Tibet) Plateau: Implications for our Future.* (pg 8): International Symposium and Field Workshop on Paleosols and Climatic Change. July 27th-30th, Lanzhou University, Lanzhou, China. *Dust and climate change.* Xian Key National Lab of Loess, Xian, China, July 31.

Dust Aerosols, Loess Soils, and Global Change. October 11-14, Mary E. Davis and Lonnie G. Thompson, Seattle, Washington.

Dust Records for a Global Array of Ice Cores: What do they tell us about the last 30,000 years? 1998 GSA Annual Meeting, October 26-29.

Tropical Ice Core Histories: The Last 30,000 Years, Fall AGU 1998, San Francisco, (Invited) EOS, Transactions, AGU, 79(45), p. F178.

Ice Cores as Archives for Microorganisms: Fall AGU 1998, San Francisco (E. Mosley-Thompson, B.C. Christner, J.N. Reeve, K. Sandman, LG. Thompson, and V. Zagorodnov) EOS, Transactions, AGU, 79(45), F61.

Climatic and Snow Geochemical Variations at the Summit of Nevado Sajama, Bolivia Fall AGU 1998, San Francisco (Douglas R. Hardy, Mathias Vuille, Lonnie G. Thompson and Raymond S. Bradley) EOS, Transactions, AGU, 79(45), F148.

Confirmation of Glacial age ice and Parameterization of Climatic Processes. Fall AGU 1998 (R. Kramer Campen, Todd A. Sowers and Lonnie G. Thompson) EOS, Transactions, AGU, 79(45), F148.

1997 L.G. Thompson, *Tropical Climate Instability: The Record from Ice Cores.* 1997 Spring Meeting AGU p. S195 (invited: AGU).

L.G. Thompson, *The Last Glacial Cycle from a Qinghai-Tibetan Ice Core: Implications for the Tropical Hydrologic Cycle,* 1997 Fall Meeting AGU p. F 44 (invited).

1995 L.G. Thompson, J. Beer, E. Mosley-Thompson, M.E. Davis & M.W. Slattery. *Solar Variability as Determined from Low Latitude-High Elevation Ice Core Records.* 1995 Fall Meeting AGU p. F93 (invited).

L.G. Thompson, M.E. Davis, E. Mosley-Thompson and K.A. Henderson. *Ice Core Records of Abrupt Climate and Environmental Changes in the last 10,000 years from the Tropical Andes, Peru.* 1995 Fall Meeting AGU p. F283 (invited).

Invited Lectures and Outreach Activities (508 total)

2018 *Climate Change: The evidence, people, plants and our options.* **Day of Education,** Chadwick Arboretum. Agriculture campus of The Ohio State University. February 3. Columbus, Ohio.

Past, Present and Future of Glacier Archives from the World's Highest Mountains, **Nature Conservancy Board Meeting,** Byrd Polar and Climate Research Center. January 26. Columbus, Ohio.

Climate and environmental change in PAN-Third Pole Region (Tibetan Plateau)-Global Linkages. **Public Lecture,** sponsored by Oberlin's Luce Initiative on Asian Studies and the Environment Oberlin College. January 24. Oberlin, Ohio.

Tibetan Multiple Spheres Interactions, Dynamics and Global Linkages: A Paleoclimate Perspective from the World's Highest Ice Fields. **American Meteorological Society Annual Meeting,** Third Symposium on Multi-scale Predictability: Data-model Integration. January 8. Austin, Texas.

2017 *Climate Change: The Evidence, People and Our Options.* **West Virginia Science Teachers Association Fall Conference,** Oglebay Resort. November 3. Wheeling, West Virginia.

Loss of Glaciers on the World's Highest Mountains and Societal Consequences, T75 Planetary Climate Disruption Demands Urgent Global Policy Action. **Geological Society of America.** October 24. Seattle, Washington.

Climate Change: The Evidence, People and Our Options. **Symposium on Ecologically Informed Theological Education**, Methodist Theological School in Ohio. October 17. Delaware, Ohio.

Past, Present and Future of Glacier Archives from the World's Highest Mountains, with emphases on TPE. **Institute of Tibetan Plateau Research**. July 21. Beijing, China.

Documented Climate Changes in Ice Core Records from Third Pole Glaciers, with Emphasis on the Guliya Ice Cap, Western Kunlun Mountains. **Third Pole Science Summit**, Invited Keynote opening. July 10. Kunming, China.

Past, Present and Future of Glacier Archives from the World's Highest Mountains. **American Philosophical Society**, Benjamin Franklin Hall. April 28. Philadelphia, Pa.

Environmental Change in the Third Pole Region and its Global Linkages. **2017 Vega Medal Symposium**, the Changing Third Pole Environment. April 20. Stockholm, Sweden.

Atop a Glacier, A Heart-to-Heart on Climate Change, **2017 Fairfield Academy of Medicine**, Distinguished Guest Lecture. April 11. Lancaster, Ohio.

Past, Present and Future of Glacier Archives from the World's Highest Mountains. **Answers in the Ice, Symposium**. Grand opening of the Canadian Ice Core Archive, University of Alberta. March 17. Alberta, Canada.

Past, Present and Future of Glacier Archives from the World's Highest Mountains. **Rutgers University**, Institute of Earth, Ocean and Atmospheric Sciences. Distinguished Speaker Lecture. March 2. Middlesex County, New Jersey.

Climate Change: The Evidence and Our Options. **Environmental Professionals Network Breakfast**, School of Environment and Natural Resources. College of Food, Agricultural, and Environmental Sciences, January 11.

2016 *Climate Changes Documented from Third Pole Glaciers*, Thompson, L.G, T. Yao, E. Beaudon, E. Mosley-Thompson, M. Davis, D. Kenny and P.-N. Lin. **Third Pole Environment (TPE) under Global Changes, AGU Fall Meeting**. December 12. San Francisco, California.

Climate Change: People and Our Options. **Honors Class, Department of Geography, The Ohio State University**. December 3. Columbus, Ohio

Climate Change: The Evidence, People and Our Options, Lonnie G. Thompson and Ellen Mosley-Thompson. **Champions of Science: A Game Plan for the Future! National Science Teachers Association Conference**. December 2. Columbus, Ohio.

A Paleoclimate Perspective from the World's Highest Glaciers: A Heart-to-Heart on Climate Change. **American Institute of Professional Geologists (AIPG) Annual Meeting**, November 17. Columbus, Ohio.

Current State of Climate Change, An Overview. **Sierra Club and National Wildlife Federation**, November 15. Ohio Union, The Ohio State University.

Current State of Climate Change and Why Local Efforts to Increase Energy Efficiency are so Important! **Mid-Ohio Regional Planning Commission (MORPC) Summit on Sustainability**, October 21. Hilton Columbus Downtown.

Climate Change: The Evidence, People and Our Options. **Institute of Tibetan Plateau Research**, CAS, August 19. Beijing, China

Global Climate Change: A Perspective from the World's Highest Mountains. **Institute of Earth Environment**, August 18. Xi'an, China.

Plenary Keynote: *Climate Changes Documented in Ice Core Records from Third Pole Glaciers, Including New Results from the 2015 Guliya Project.* **International Workshop on Land Surface Multi-spheres Processes of Tibetan Plateau**, August 8. Xining, China.

Global Climate Change and the Impact on the Glaciers of Peru. **Instituto Nacional de Investigacion en Glaciares y Ecosistemas de Montana Huaraz**, July 15. Peru.

Global Climate Change: A Perspective from the World's Highest Mountains. **73rd Eastern Snow Conference**, The Ohio State University Faculty Club, People Longaberger Alumni House, June 15.

Global Climate Change: The Evidence, People and Our Options. **Buckeye Smart**, The Ohio State University Alumni Association, Inc. Outreach and Engagement, June 14.

The Bernard and Susan Master, **Moonlight on the Marsh Distinguished Lecture Series**, Florida Gulf Coast University. *Climate Change: The Evidence, People, and Our Options.* January 14. Fort Myers, Florida.

2015 *High-amplitude, Centennial-scale Climate Oscillations During the Last Glacial in the Western Third Pole as Recorded in the Guliya Ice Cap*, **AGU GC22E The Third Pole Environment (TPE) under Global Changes II Session**. December 15, San Francisco, California.

Invited Lecturer, *The Climatic Changes Responsible for the Disappearance of Tropical Mountain Glaciers and the Social Consequences.* **GSA, Pardee Symposium, Savior the Cryosphere**, November 2. Baltimore, Maryland.

Invited Lecturer, *Piecing Together a Changing Planet.* Water Stewardship Center at West Creek, **Cleveland Metro parks**, October 30. Cleveland, Ohio.

Keynote: *Global Climate Change, ENSO and Black Swan Events: A Paleoclimate Perspective form the World's Highest Mountains.* **XII International Symposium on Antarctic Earth Sciences**. July 15, Goa, India.

Invited, *Glaciers, Water & People: Exploring Climate Change, "Quest for Knowledge"* University Women's Club Conference for Big Ten Universities, Blackwell Inn, June 13. The Ohio State University, Columbus, Ohio.

Invited, *Glaciers, Water & People Exploring Climate Change in Peru*. **Geological Society of Peru**, June 11, Lima, Peru.

Invited, *Glaciers, Water & People; Exploring Climate Change in Peru*. **Universidad Nacionalde San Antonio Abad of Cusco**, May 29, Cusco, Peru.

Invited, *Climbing Your Mountains and Keeping Your Balance*, **New Generation of Polar Researchers (NGPR) Symposium**, May 6, USC Wrigley Marine Science Center, May 6, Catalina Island, California.

Invited, *Climate Change: A Primer and Stories from the Ice*, **New Generation of Polar Researchers (NGPR) Symposium**, May 5, USC Wrigley Marine Science Center, Catalina Island, California.

Keynote Speaker, *Global Climate Change, ENSO and Black Swans: A Perspective from the World's Highest Mountains*, **Frontiers of Science Lecture**, March 26, University of Utah, Salt Lake City, Utah.

Invited Lecturer, *Climate Change: Glaciers, People and Options*, **Global Change & Sustainability Center**, University of Utah, March 24, Salt Lake City, Utah.

Invited Lecturer, *Climate Change: The Evidence and Our Options*, **Energy Cultures in the Age of the Anthropocene, Humanities Symposium**, Ida Cordella Beam Distinguished Visiting Professor Lecture, March 5, University of Iowa, Iowa City, Iowa.

Cultural Arts Program, Cuyahoga Valley National Park, Jan. 16, 2015 Part 1: Understanding Climate Change, Part II: How to manage World with threats from Climate Change, Rising sea level, and Rising Energy consumption. Northeastern Ohio.

2014 Invited Lecturer(s) (with Ellen Mosley-Thompson), **U.S. Chief of Naval Operations Strategic Studies Group**. Naval War College (via Skype), November 18, Newport, Rhode Island.

Lecturer to **Breakfast of Science Champions** and tour guide for high school students from Central Ohio on November 13, Columbus, Ohio.

Invited Lecturer at **Climate Change, Health and Water Issues Workshop** on Climate, Security, Health and Resilience Initiative (CSHR). *Climate, ENSO and Black Swans over the last 1000 Years*. Biomedical Research Tower, The Ohio State University, November 4, Columbus, Ohio.

Invited Lecturer at **Climate Change Symposium**. *Global Climate Change: Glaciers and People*. Toledo Zoo, Indoor Theatre, Museum of Science, October 29, Toledo, Ohio.

Invited Lecturer for the **Church of the Messiah's Forum**. *Global Climate Change: The Evidence and Our Options*. United Methodist Church, October 26, Westerville, Ohio.

Invited Lecturer for the **New Horizons in Science, Science Writers Conference**. *El Niño and Human History: The Record Written in Tropical Ice Cores*. Hilton, Columbus, Ohio.

Invited Lecturer for the **Engineers for Sustainable World, 2014 Regional Conference**. *Global Climate Change: The Evidence, Options, and Importance of Sustainability*. Drake Performance and Event Center, October 11, The Ohio State University, Columbus, Ohio.

Invited discussion participant at **Indianola Informal K-6 School**. Discussion with teachers and parents of the screening of Ethan Steinman's *Glacial Balance* and climate change research and education of students. April 26, Columbus, Ohio.

Invited to give the **Arthur Mirsky Lecture**. *Climate Change: Glaciers, Ice Cores and Options*. Indiana University-Purdue University, April 24, Indianapolis, Indiana.

Invited to international workshop for the **Development of Ice Core Program for Himalayan Glaciers, Bangalore, India**. Divecha Centre for Climate Change, April 11, Bangalore, India.

Invited to Divecha Centre for Climate Change, Indian Institute of Science to give the **5th Grantham lecture on Climate Change**. *Global Climate Change: A perspective from the past climate in the world's highest mountains*. April 9, Bangalore, India.

Invited Lecturer for **Sigma Xi Chapter at the University of Dayton**. *Climate Change from Glaciers and Ice Cores and our Options*. Science Center, University of Dayton, April 3, Dayton, Ohio.

Invited Lecturer for Climate Change, Glaciers, People and Impacts on Natural Resources program. *Climate Change, The Evidence and Our Options*. **Environmental Education Council of Ohio**, Deer Creek Lodge and Conference Center, March 27, Mt. Sterling, Ohio.

Invited Lecture. *Global Crisis: A Paleoclimate Perspective*. **Mershon Center for International Security Studies**, The Ohio State University, March 18-19, Columbus, Ohio.

Invited Lecture as part of former Rep. Bob Inglis visit. *The State of the Climate: Global Climate Change: The Evidence and Our Options*. **The Ohio Statehouse**, Columbus, Ohio.

Invited Lecture. *Climate Change: The Evidence, People and Our Options*. The Clay Center, March 10, Charleston, West Virginia.

Invited talk. *Climate Change, Black Swans and People*. STEAM Factory of The Ohio State University, January 23, Columbus, Ohio.

Invited Lecture. *Black Swans, Climate and Health*, **Institute of Tibetan Plateau Research**. January 19, Beijing, China.

Invited Lecture. **International Workshop on Science and Technology, Ministry of Science and Technology of China**. *Challenges and Opportunities for China Brought by New Trends of Global Science and Technology Development*. January 17, Beijing, China.

2013 Invited Lecture. *Researching Climate Change: Glacier Balance with Dr. Lonnie Thompson*. **COSI**, December 5, Columbus, Ohio.

Winterscape: Glacier Balance Panel with Ethan Steinman. **Wexner Center for the Arts**, Ohio State University, December 3, Columbus, Ohio.

Invited Lecture for the Columbus Audubon. *Glaciers, People and Global Climate Change*. **Grange Insurance Audubon**, November 19, Columbus, Ohio.

Invited Lecture for the **Garden Club of the Ohio Environmental School**. *Global Climate Change: The Evidence and Our Options*. Cincinnati Zoo, November 16, Cincinnati, Ohio.

Invited Lecture for the **Sagan National Colloquium**, *Climate Change: The Evidence and Our Options*, Hamilton-Williams Campus Center, Ohio Wesleyan University. November 12, Delaware, Ohio.

Invited Lecture, *Climate Change: The Evidence, People and Our Options*, Walter Hall Rotunda, Ohio University. November 6, Athens, Ohio.

Invited Lecture for **Representative Mike Foley** with 7 State Republican district members and 7 State Democrat district members. *Global Climate Change: Glaciers, People and Options*, Gressos, German Village. October 30, Columbus, Ohio.

Keynote Speaker at the Pardee Symposium. *Earth's Climate History as Recorded in Glaciers and Ice Caps on the World's Highest Mountains*, The 125 Years of Exploration and Geosciences with GSA and National Geographic Society. **Geological Society of America annual meeting**. October 27, Denver, Colorado.

Invited Lecture for the Ohio Interfaith Power and Light: A Religious Response to Climate Change, *Between Heaven and Earth: Faithfully Responding to Climate Change*. **Trinity Lutheran Seminary & Bexley Seabury Seminary**. October 24, Columbus, Ohio.

Invited Lecture for the **Climate Science Symposium**, *Earth's Climate History as Recorded in Glaciers and Ice Caps on the World's Highest Mountains*. October 19, University of Massachusetts, Amherst, Massachusetts.

Presentation at the **7th Annual ENERGY STAR Certified Homes Utility Sponsor Meeting**, *Climate Change: Glaciers, People and Options*, School of Earth Sciences and Byrd Polar Research Center, The Ohio State University. October 16, Columbus, Ohio.

Presentation at the **2013 International Symposium Asia-Pacific Space Geodynamics**, *Earth's Climate History from Glaciers and Ice Core*, School of Earth Sciences and Byrd Polar Research Center, The Ohio State University. October 14, Columbus, Ohio.

Evening Lecture, *Climate Change: Glaciers, People and Options*. **McCoy Community Center for the Arts**. October 7, New Albany, Ohio.

Presentation at the **McCoy Community Center for the Performing Arts**, *Climbing Your Mountains*. October 7, New Albany, Ohio.

Invited Lecture for **Experimental Station Committee on Organization and Policy (ESCOP)**, 2013 ESS/SSSES/ARD Meeting and Workshop. *Global Climate Change: Glaciers, Water and People*, Hilton Columbus at Easton, September 24, Columbus, Ohio.

Invited Lecture for the **Ohio-Kentucky-Indiana Regional Council of Governments**, *Climate Change: The Evidence and Our Options*. August 16, Cincinnati, Ohio.

Invited Lecture for the **Adult Enrichment Program Committee**, *Climate Change: The Evidence and Our Options: An Inconvenient Truth Meets an Inconvenient Mind*, First Unitarian Universalist Church. August 11, Columbus, Ohio.

Invited Lecture for the **Athletic Club of Columbus**, *A Dialogue on Climate Impacts and Opportunities in Ohio*, August 6, Columbus, Ohio.

Keynote Speaker for **International Glaciological Society**, *Large-Scale Teleconnections as Recorded in Climate Records of Low-to Mid-Latitude Mountain Glaciers*, Institute of Tibetan Plateau Research. July 29, Beijing, China.

Invited Lecture for the **Columbus Rotary**, *Glaciers, People and Global Change*. June 24, Columbus, Ohio.

Peru Night at Byrd Polar Research Center, *Glaciers, Water & People: Exploring Climate Change in Peru*. April 23, Columbus, Ohio.

Invited Lecture for the **American Polar Society 75th Anniversary**, *Earth's Climate History from Mountain Glaciers and Ice Cores*, American Polar Society. April 16, Woods Hole, Massachusetts.

Presentation of the Honorary Membership for Life in the American Polar Society Medal, *Glaciers, People and Global Climate Change and Climbing Your Mountains*, **Research Day 2013 Cleveland State University**. April 12, Cleveland, Ohio.

4th Third Pole Environmental Workshop, *Earth's Climate History from Glaciers and Ice Cores*. April 1, Dehradun, India.

Invited Lecture for the Environmental Law Association, *Climate Change, Evidence, People and Options*, **Moritz College of Law, The Ohio State University**, March 25, Columbus, Ohio.

Climate Conversation at The Ohio State University, *Global Climate Change, Glaciers and People*, Sierra Club, The Ohio State University, March 23, Columbus, Ohio.

Kavil Foundation Special Session, *Earth's Climate History from Glaciers and Ice Cores*, American Physical Society, March 20, Baltimore, Maryland.

Invited Lecture, *Climate Change: The Evidence and Our Options: An Inconvenient Truth Meets and Inconvenient Mind*, **St. John's Evangelical Protestant Church**. February 25, Columbus, Ohio.

Invited Lecture for the **Soil and Water Conservation Society**, *Global Climate Change: Glaciers, Agriculture and People*. February 6, Columbus, Ohio.

Invited Lecture, *Climate Reconstruction from Mountains and Ice Cores*, **Institute of Tibetan Plateau Research**. January 20, Beijing, China.

Invited Lecture, *Climate Reconstruction from Mountain Glaciers and Ice Cores*, Institute of Tibetan Plateau Research, January 19, Beijing, China.

2012 Invited Lecture for **Water Management Association of Ohio's Fall Conference**, *Climate Change: Glaciers, Water and People*, Quest Business & Conference Center, November 15, Columbus, Ohio.

Invited Public Lecture, the **Toledo Zoo Museum of Science Climate Change Symposium**, *Global Climate Change: An Inconvenient Truth meets the Inconvenienced Mind*, October 31, Toledo, Ohio.

Mini-Symposium on Water and Climate, *Global Climate Change, Glaciers and People*, Division of Climate, Water and Environment. School of Earth Sciences, The Ohio State University, October 19, Columbus, Ohio.

Invited Public Lecture, OSU College of Arts and Sciences, *People and Global Climate Change (An Inconvenient Truth Meets An Inconvenient Mind)*, U.S. Bank Conference Theatre at The Ohio Union, October 14, Columbus, Ohio.

Invited Lecture for the **Earth and Atmospheric Sciences Department at Cornell University**, *Global Climate Change, Glaciers and People*, October 11, Ithaca, New York.

OSU Climate Change Webinar Series, *Glaciers, People and Options*, The Ohio State University, October 3, Columbus, Ohio.

Invited lecture for **Upper Arlington Ohio Progressive Action (UAPA)**, *Glaciers, People and Options*, Upper Arlington Public Library, September 25, Upper Arlington, Ohio.

OSU's Evolution, Ecology and Organismal Biology Autumn 2012 Colloquium, *Climate Change: The Evidence and Our Options*, 420 Arnoff Laboratory, The Ohio State University, September 13, Columbus, Ohio.

Presentation to the OSU Richard M. Ross Hospital Board with Dr. Robert Higgins, *Your Heart is in the Right Place*, **Ross Heart Hospital**, August 20, Columbus, Ohio.

Keynote Speaker for the **Association for Behavior Analysis International meeting**, *The Greatest Challenge of Global Climate Change*, U.S. Bank Conference Theater, The Ohio State University, August 3, Columbus, Ohio.

Invited Lecture at OSU Byrd Polar Peru Night Open House, *Research on Glaciers of Peru*, **OSU Byrd Polar Research Center**, February 15, Columbus, Ohio.

2011 Invited Lecture at **American Geophysical Union meeting**, *Third Pole Glaciers and the Ice Core Records of Past, Present and Future*, and *Tropical Glaciers in the Common Era: Papua, Indonesia, Quelccaya Ice Cap, Peru and Kilimanjaro, Tanzania*. December 7, San Francisco, California. Lectures given by Mary E. Davis.

Invited Presentation to **European Academy of Bozen/Bolzano (EURAC)**, *Ice Cores and Climate*, September 20, Bolzano, Italy.

Iceland Presidential Address (Olafur Ragnar Grimsson), *Climatic Change: The Evidence and our Options*, September 6, University of Iceland, Reykjavik, Iceland.

The 6th Open Assembly of the Northern Research Forum, *Our Ice Dependent World*, September 4, Hotel Ork, Hveragerdi, Iceland.

The Third Pole Environment (TPE) Workshop, *Third Pole Glaciers, Recorders and Indicators of Climate Change*, August 30, Reykjavik, Iceland.

International Union for Quaternary Research (INQUA) XVIII Congress, *A Glacier Paleoclimate Perspective for the Holocene from the World's Highest Mountains*, July 25, Bern, Switzerland.

University of Lancaster, **Honorary Doctorate of Science Lecture**, July 21, United Kingdom.

Lecture for National Water Authority, *Climate Change: The Evidence and our Options*, July 15, Lima, Peru.

Peru Public Lecture, *The Evidence of Climate Change and our Options*, July 1, Cusco, Peru.

22nd Annual Estate Planning Conference on Wealth Transfer, *Climate Change: The Evidence and our Options*, Hilton Columbus at Easton, June 24, Columbus, Ohio.

The Ohio State University, **Mathematical Biosciences Institute Workshop**, *A Glacier Paleoclimate Perspective for the last 10,000 years from the World's Highest Mountains*, June 21, Columbus, Ohio.

University of Michigan's 2011 Emissions Conference, *Climate Change: The Evidence and Our Options*, June 14, Ann Arbor, Michigan.

Kiwanis International of Columbus, *Climate Change: The Evidence and our Options*, The Athletic Club, May 16, Columbus, Ohio.

Miami Science Museum Presentation in *Second Life*, Evidence of Global Climate Change from Earth's Ice Cover, May 14, videoconference from Columbus, Ohio to Miami, Florida.

2nd Annual Keeling Lecture, *Climate Change: The Evidence and our Options*, Birch Aquarium at Scripps, May 9, University of San Diego, California.

Activism through Science, *Climate Change: The Evidence and our Options*, **Office of Sustainability, Ohio University**, April 28, Athens, Ohio.

Boy Scout Troop from Columbus, Ohio, *A Few Lessons from the Mountains*, talk given at the Byrd Polar Research Center, Columbus, Ohio.

Dept. of Geography and Geophysics, *Recorders and Indicators of Climate Change Are Disappearing Globally*, University of Utah, April 15, Salt Lake City, Utah.

Frontiers of Science Lecture, *Climate Change: Evidence and Options*, Biology Building Auditorium, April 14, University of Utah, Salt Lake City, Utah.

University of Venice Lecture, *Climate Change: The Evidence and our Options*, April 5, Venice, Italy.

Fate of Mountain Glaciers Working Group Meeting, *Observed Trends in Glaciers from Ice-Core Studies in Fate of Mountain Glaciers in the Anthropocene*, **The Pontifical Academy of Sciences, Vatican City, Italy**, April 2-4.

Graduate Student Association, *From the World's Highest Mountains: The Evidence and our Options*, University of Toledo, March 26, Toledo, Ohio.

The Norma Wilkinson Annual Public Lecture, Global Climate Change: A Paleoclimate Perspective from the World's Highest Mountains, Dept. of Geography & Environmental Sciences, Nike Lecture Theatre, March 22, University of Reading, United Kingdom.

Chemical Abstracts, *Climate Change: The Evidence and our Options*, March 9, Columbus, Ohio.

Dept. of Biological Sciences, *Climate Change: The Evidence and our Options*, University of Manitoba, February 10, Winnipeg, Canada.

Barrett-Hamilton Lecture Series, *Abrupt Climate Change: Perspective from the World's Highest Mountains*, Robson Hall, February 10, University of Manitoba, Winnipeg, Canada.

Yale Climate and Energy Institute, **Paleotemperature Proxy Workshop**, *Ice Core Perspective on Paleothermometry with Focus on the Tropics*, Yale University, January 14-15, New Haven, Connecticut.

2010 Invited lecture. *Perspective on 21st Century Climate Change from the World's Highest Mountains*, **Meteorological, Climatological and Geophysical Agency (BMKG) Indonesia**. Official launch of the Papua, Indonesia Ice Core Research Program. May 18, Jakarta, Indonesia.

Public Lecture. *Planned ice core drilling program near Puncak Jaya*, May 24, Timika, Papua, Indonesia.

Public Lecture. *Planned ice core drilling program near Puncak Jaya*, May 27, Tembagapura, Papua, Indonesia.

Jakarta Young Business Professionals, *Completion of the Field Program on the Papua Glacier Project*, July 1, Jakarta, Indonesia.

International Symposium on Earth's Disappearing Ice: Drivers, Responses and Impacts. *Tropical Glaciers: Records and Indicators of Climate Change are Disappearing Globally*. August 17, Columbus, Ohio.

Public lecture: *Climate Change: The Evidence and our Options*. Environmental Change Initiative and Department of Geological Sciences. Brown University, September 15, Providence, Rhode Island.

Departmental Lecture: *Climbing Your Mountains*: Department of Geological Sciences, University of Minnesota, November 11, Duluth, Minnesota.

Public lecture: *Understanding Global Climate Change: A Paleoclimate Perspective from the World's Highest Mountains*. University of Minnesota, November 11, Duluth, Minnesota.

Annual Meeting of Columbus Natural History Society, *Climate Change: The Evidence and our Options*, OSU Museum of Biological Diversity, December 6, Columbus, Ohio.

Invited Lecture, *A 1700-year record of tropical sea surface temperatures and high-altitude Andean climate derived from Quelccaya ice cap, Peru*. American Geophysical Union Fall Meeting, December 15, San Francisco, California.

Invited Lecture, *Ice Core Records of Past Climate: Evidence and Future Glacier Loss Across the Third Pole*. American Geophysical Union Fall Meeting, December 16, San Francisco, California.

The Scioto Educational Foundation, *Perspective on 21st Century Climate Change from Ice Core Histories and Ice Field Exploration*, OSU Don Scott Airport, April 20, Columbus, Ohio.

Invited Lecture, *A Paleoclimate Perspective from the World's Highest Mountains*, Texas A&M University, April 13, College Station, Texas.

Invited Lecture, Texas A&M University, April 12, College Station, Texas.

Panelist in the **Director's Dialogue on Art and Social Change: Climate and Culture**, March 31, OSU Wexner Center for the Arts, Columbus, Ohio.

Peruvian Glaciers Lecture, *Update on Impact of Climate Change on Peruvian Glaciers*, OSU Byrd Polar Research Center, March 29, Columbus, Ohio.

2010 Green Energy Summit, *A Perspective on Global Climate Change from the World's Highest Mountains*, Midwest Airlines Conference Center, March 25, Milwaukee, Wisconsin.

Ohio Farm Bureau Federation Trends and Issues Conference, *A Perspective on Global Climate Change from the World's Highest Mountains*, OSU Fawcett Center for Tomorrow, March 23, Columbus, Ohio.

Videoconference to the University of Pavia in Italy, *Perspective on 21st Century Climate Change from Ice Core Histories and Ice Field Exploration*, given from OSU Byrd Polar Research Center, March 15, Columbus, Ohio.

Friends of Stone Laboratory and Ohio Seed Grant College Program, *Global Climate Change: A Paleoclimate Perspective from the World's Highest Mountains*, OSU Fawcett Center for Tomorrow, March 2, Columbus, Ohio.

Invited Lecture, *Climate Change and Stewardship*, **Jewish Community Center**, February 15, Columbus, Ohio.

Three Valley Conservation Trust Annual Meeting, *Global Climate Change: A Paleoclimate Perspective from the World's Highest Mountains*, Miami University, February 13, Oxford, Ohio.

Keynote Speaker for Opening of School of Global Sustainability, *Global Climate Change: A Paleoclimate Perspective from the World's Highest Mountains*, University of South Florida, February 11, Tampa, Florida.

Marine Science College, *Perspective on 21st Century Climate Change from Ice Core Histories and Ice Field Exploration*, University of South Florida, February 10, Tampa, Florida.

The Columbus Surgical Society, *Global Climate Change: A Paleoclimate Perspective from the World's Highest Mountains*, **Presidential Symposium**, February 6, Columbus, Ohio.

Ohio EDA and Governor's Office, *Global Climate Change: A Paleoclimate Perspective from the World's Highest Mountains*, February 2, Columbus, Ohio.

2009 United States Naval War College, *Global Climate Change: A Paleoclimate Discussion on Climate and Crisis*, **President's Roundtable Discussion**, December 17, New Port, Rhode Island.

Dartmouth University Public Lecture, *Global Climate Change: A Paleoclimate Perspective from the World's Highest Mountains*, The John Sloan Dickey Center for International Understanding, November 17, Hanover, New Hampshire.

Climate Change Symposium, *Global Climate Change: A Paleoclimate Perspective from the World's Highest Mountains*, Northwestern University, November 5, Evanston, Illinois.

Ohio Transportation Engineering Conference, *Climate Change and Transportation*, October 28, Columbus, Ohio.

The Ohio Transportation Engineering Conference (OTEC) at the Columbus Convention Center, *Climate Change and the Human Response*, October 27, Columbus, Ohio.

Annual Meeting and Exposition of the Geological Society of America, *Crisis in the Cryosphere: Impacts of Planetary Meltdown: Abrupt Climate Change: A paleoclimate perspective from the World's Highest Mountains*, October 21, Portland, Oregon.

The Cosmos Club, **The Mountain Institute's Mountain Hero Award Ceremony**, *Climbing Your Mountains*, October 22, Washington, D. C.

The Catholic University, USAID, NSF, and the Mountain Institute sponsored workshop: *A World Without Glaciers: Global Climate Change: A Perspective from the World's Highest Glaciers*, July 7, Lima, Peru.

Public lecture: *Global Climate Change: The Paleoclimate History and Engineering to Recover Ice Cores from the World's Highest Mountains* Tembagapura, Papua, New Guinea, May 19.

Presidential Scholar's Address: *Understanding Global Climate Change and the Human Response: A Paleoclimate Perspective from the World's Highest Mountains*. **35th Annual Convention Association for Behavior Analysis International**, May 23, Phoenix, Arizona.

Ice Core Paleoclimatology. **Meteorological, Climatological and Geophysical Agency**, May 15, Jakarta, Indonesia.

World Ocean Conference, Indo-Pacific Ocean Climate Variability. Keynote: *Tropical Glaciers: Recorders and Indicators of Climate Change*, May 13, Manado, North Sulawesi, Indonesia.

The Math Undergraduate Recognition Ceremony, Lecture: *Climbing Your Mountains*, The Ohio State University, May 8, Columbus, Ohio.

Henry W. Kendall Memorial Lecture, *Global Climate Change: A Paleoclimate Perspective from the World's Highest Mountains*. Kirsch Auditorium, Massachusetts Institute of Technology, May 1, Cambridge, Massachusetts.

Conferencia Internacional Agua y Cambio Climatico; Public lecture: *Colegio Andino, Climate Change and Impacts of Glacier loss in the Andes of Peru*. April 23, Cusco, Peru.

JPL Earth and Space Sciences Colloquium, *Global Climate Change: A Paleoclimate Perspective from the World's Highest Mountains*, April 6, Pasadena, California.

University of Louisville Lecture, *Global Climate Change: A Paleoclimate Perspective from the World's Highest Mountains*, March 27, Louisville, Kentucky.

University of Pittsburgh Lecture, *Global Climate Change: A Paleoclimate Perspective from the World's Highest Mountains and Winds, Mountains, Oceans, Rivers: Ecologies and Their Social Impacts in the New World*, March 20, Pittsburgh, Pennsylvania.

Ohio University, Frontiers in Science. *Lessons from the Mountains, A brief history of tropical ice core paleoclimatology and Global Climate Change: A Paleoclimate Perspective from the World's Highest Mountains*, March 9, Athens, Ohio.

Roundtable Breakfast Lecture, *Global Climate Change: A Paleoclimate Perspective from the World's Highest Mountains*, February 27, Worthington, Ohio.

29th Woodford-Eckis Lecturer, *Paleoclimatic Histories from Tropical Glaciers and Evidence for Asynchronous Glaciation and Global Climate Change: A Paleoclimate Perspective from the World's Highest Mountains*, February 19, Pomona College, California.

Public lecture at the **Byrd Polar Research Center**, The Ohio State University. *Global Climate Change: A Paleoclimate Perspective from Peru's Highest Mountains*, January 23, Columbus, Ohio.

Upper Arlington Senior Group, *Global Climate Change: A Paleoclimate Perspective from the World's Highest Mountains*, January 22, Columbus, Ohio.

Asia Society, *Himalayan Meltdown*, January 15, New York, New York.

Lamont Doherty Earth Observatory of Columbia University, *Tropical Glaciers: Recorders and Indicators of Climate Change*, January 14, Palisades, New York.

2008 Ohio Northern University, *Global Climate Change: A Paleoclimate Perspective from the World's Highest Mountains*, Ohio Northern University, December 4, Ada, Ohio.

Ohio Dominican University, *Global Climate Change: A Paleoclimate Perspective from the World's Highest Mountains*, November 19, Columbus, Ohio.

American Philosophical Society, *Global Climate Change: A Paleoclimate Perspective from the World's Highest Mountains*, November, 14, Philadelphia, Pennsylvania.

Vice Provost for Research Colloquium, *Climate Histories from Tropical Glaciers and the Evidence for Asynchronous Glaciation and Global Climate Change: A Paleoclimate Perspective from the World's Highest Mountains*, Baylor University, October 30-31, Waco, Texas.

University of Charleston, *Global Climate Change: A Paleoclimate Perspective from the World's Highest Mountains*, October 23, Charleston, West Virginia.

Audubon Ohio State Assembly, *Global Climate Change: A Paleoclimate Perspective from the World's Highest Mountains*, October 18, Bellville, Ohio.

Renaissance Weekend, *Understanding Climate Change*, joint lecture with Ellen Mosley-Thompson, The Ohio State University, October 17, Columbus, Ohio.

Twig Lecture, *Retreating Glaciers, Abrupt Climate Change and our Future*, October 16, Columbus, Ohio.

The McCormick Climate Change Conference, *Retreating Glaciers, Abrupt Climate Change and Our Future*, October 12, Columbus, Ohio.

Geological Society of America Lecture, *Retreating Glaciers: A Paleoclimate Perspective from the World's Highest Mountains*, GSA Climate Change through Time, October 5, Houston, Texas.

Victoria University, *Lessons learned from the High Mountains*, September 30, Wellington, New Zealand.

University of Otago, *Understanding Climate Change: Past, Present and Future*, September 22, Dunedin, New Zealand.

Faith, Reason and World Affairs Symposium, *Understanding Climate Change*, Concordia College, September 17, Moorhead, Minnesota.

Chapman Conference, *Understanding Climate Change*, September 8, Lake Tahoe, California.

First LEGO League Climate Connections, *Retreating Glaciers: A Paleoclimate Perspective from the World's Highest Mountains*, September 5, Columbus, Ohio.

NYPR Workshop, *Climbing Your Mountains*, Colorado, August 12, Colorado Springs, Colorado.

Byrd Polar Research Center (via polycom). *Global Climate Change: A Paleoclimate Perspective from the World's Highest Mountains*, Lego Robotics League: An Introduction to Climate Change, November 18, Columbus, Ohio.

International Glaciological Society, International Symposium on Dynamics in Glaciology and Seligman Crystal Presentation. *Observations from the world's highest mountains: Understanding linkages among glacier ages, retreating ice and ice dynamics*, August 19, Limerick, Ireland.

NEO Green Energy Expo, *Retreating Glaciers: A Paleoclimate Perspective from the World's Highest Mountains*, August 16, Akron, Ohio.

The Ohio State University, *Retreating Glaciers, Global Climate Change and the Future of Our National Parks*, July 29, Columbus, Ohio.

12th International Meeting on Chemical Sensors Banquet Speaker, *Global Climate Change: A Paleoclimate Perspective from the World's Highest Mountains*, July 14, Center of Science and Industry, Columbus, Ohio.

Pontificia Universidad Católica del Perú, *Abrupt Climate Change and Our Future*, June 17, Lima, Peru.

Humboldt Symposium, *Understanding Climate Change. The Universe and the World Around Us*, Rice University, May 30-31, Houston, Texas.

CERMACS, 2008 Plenary Lecture, *Retreating Glaciers, Abrupt Climate Change and Our Future*, Center of Science and Industry (COSI), Department of Chemistry, OSU June 10, Columbus, Ohio.

Ice Cores and Climate, The Heat is On! Confronting Climate Change in the Classroom, **Outreach to teachers in Kansas** (via Polycom).

Global Climate Change: A Paleoclimate Perspective from the World's Highest Mountains, Division of Physical Sciences and California Space Grant Consortium,

University of California San Diego. **The 7th Annual James R. Arnold Endowment Lecture.** May 9, San Diego, California.

Keynote Lecture. **Sixth International Conference: Remediation of Chlorinated and Recalcitrant Compounds**, *Understanding Climate Change*, sponsored by Battelle. (paper given by Dr. Paolo Gabrielli as LGT in Israel for Dan David Prize Ceremony). May 20, Monterey, California.

Dan David Symposium, *Glaciological Evidence of Global Climate Change: Implications for Our Future*, May 20, Tel Aviv University Campus, Ramat Aviv, Israel.

The Institute of Earth Sciences, **The Hebrew University of Jerusalem**, *A Paleoclimate Perspective of the Past and Present from the World's Highest Mountains*, May 21, Jerusalem, Israel.

Nationwide Board Council, *Global Climate Change: How it Affects Our World*, with Ellen Mosley-Thompson, April 2, Columbus Ohio.

IPY New Generation of Polar Researchers Symposium, *Understanding Climate Change: Stories from the Ice*, May 7, and *Climbing Your Mountains*, May 8, La Foret Conference Center, Colorado Springs, Colorado.

Leverhulme Symposium, *Retreating Glaciers: Abrupt Climate Change and Our Future*, (lecture given by Dr. Mary Davis), March 14, Royal Society, London.

Annual Ridington Lecture, *Understanding Climate Change*, McDaniel College, February 7, Westminster, Maryland.

Energy and Environmental Initiative, *Climate Change: Prevention and Adaption*, The Ohio State University, January 11, Columbus, Ohio.

University of Alabama, Huntsville, The Inauguration of David B. Williams, President. **Climate Change Forum**, April 9, Huntsville, Alabama. Lecture given by Ellen Mosley Thompson.

Leverhulme Symposium, Royal Society, *Retreating Glaciers: Abrupt Climate Change and Our Future*, March 14, London. (Paper given by Dr. Mary Davis).

Nationwide Board Council, *Global Climate Change: How it Affects Our World*, Lecture given by Ellen Mosley-Thompson & Lonnie G. Thompson, April 2, Columbus, Ohio.

Annual Ridington Lecture, *Understanding Climate Change*, McDaniel College, February 7, Westminster, Maryland.

Energy and Environmental Seminar Series, Energy and Environmental Initiative, *Climate Change: Prevention and Adaption*, January 11, Columbus, Ohio.

2007 **Columbus Metropolitan Club**, *Understanding Climate Change and our Future*, December 5, Columbus, Ohio.

Bluffton College Forum Lecture, *Understanding Climate Change*, December 4, Bluffton, Ohio.

Coos Bay Public Lecture, **Geology Lecture Series**, *Understanding Climate Change*, Southwestern Oregon Community College, Hales Center for the Performing Arts, December 1, Coos Bay, Oregon.

Frontiers of Science Seminar Series, MGG&G Seminar Series, *Recent Tropical Paleoclimate Ice Core Records Yield Evidence for Asynchronous Glaciation*, &Frontiers of Science Seminar Series, *Understanding Climate Change*, November 29, Oregon State University, Corvallis, Oregon.

Wooster College Group Lecture, *Ice Cores and Climate Change*, November 26, The Ohio State University, Byrd Polar Research Center, Columbus, Ohio.

Upper Arlington Ohio Rotary Presentation. *Understanding Climate Change*, November 27, Confluence Park, Columbus, Ohio.

Cincinnati Art Museum Invited Public Lecture for the opening of the Arctic section of Museum exhibit. *Climate Change and the Arctic*, November 25, Cincinnati, Ohio.

The Yale Form on Climate Change & the Media. *Covering Climate at Nearly 20,000 Feet*, by J. Madeleine Nash, and *A Leading Scientist's Perspective: The Scientist/Journalist Experience on Remote Mountain Research Expeditions*, by Lonnie Thompson. Published November 17, at: <http://www.yaleclimatemediaforum.org/2007/11/how-i-did-that-story-covering-climate-at-nearly-20000-feet/> and <http://www.yaleclimatemediaforum.org/2007/11/a-leading-scientists-perspective-the-scientistjournalist-experience-on-remote-mountain-research-expeditions-2/>.

International Pacific Research Center, **IPRC Special Lecture**, *Abrupt Climate Change Past, Present and Future*, Hawaii Institute of Geophysics, November 15th, University of Hawaii at Manoa, Honolulu, Hawaii.

National Academies Climate Research Committee Meeting, Fall Meeting, *Abrupt Climate Change Past, Present and Future*, November 5-6, Washington, D.C.

Alumni Lecture Series, *Understanding Climate Change*, November 2, The Ohio State University, Columbus, Ohio.

Distinguished Scholar Seminar Series, University of Florida Water Institute. *Understanding Climate Change*, November 1, University of Florida, Gainesville, Florida.

Rutgers University Invited Lecture Series, *Understanding Climate Change*, October 29, New Brunswick, New Jersey.

Polycom Lecture to the Paleoclimate class of Carlo Barbante, Environmental Sciences Department, University of Venice. First official lecture of the "Virtual International Institute," October 26, polycom from Columbus, Ohio to Venice, Italy.

C.A.R.E. A Forum on Planet Earth. (Community Awareness for Respect & Education, The Arts & Lectures Committee). *Understanding Climate Change*, October 25, The Ohio State University Mansfield and North Carolina State University. Lecture given in Mansfield, Ohio.

China's Einstein Lecturer Tour. Chinese Academy of Sciences, October 10-17. Ten day, four city lecture tour. Two lectures in Beijing, Xian and Kasgar, China. Three themes: *Understanding Climate Change*, *Impact of Global Warming on the Climate of China*, and *Climbing Your Mountains*.

University of Toledo College of Law Auditorium, **National Conversation on Climate Action Keynote Speaker**. *Understanding Climate Change*, October 4, University of Toledo, Toledo, Ohio.

New Graduate Student Orientation Keynote Address. *Climbing Your Mountains*, September 17, Independence Hall, The Ohio State University, Columbus, Ohio.

State Master Gardener Conference Keynote Speaker. *Understanding Climate Change*, September 15, Agriculture Administration Building Auditorium, The Ohio State University, Columbus, Ohio.

Leadership Ohio Presentation: Energy, Sustainability and Conversation: The Wilds. *Climate Change*, September 14, Cambridge/Salt Fork Park, Ohio.

4th Annual Green Building Expo. Keynote Speaker, *Understanding Climate Change*, Salt Lake City Mayor Rocky Anderson Green Policy Summit. September 13, Columbus, Ohio.

New Executives Climate Change Symposium, *What the World's Glaciers are telling us about Climate Change*, Graduate School of Business, Stanford University, September 5, Palo Alto, California.

Ohio Statewide Floodplain Management Conference, *Abrupt Climate Change: Past, Present and Future*, August 22, Dublin, Ohio.

Upper Arlington Senior Center, *Understanding Climate Changes from the Ice*, August 14, Upper Arlington, Ohio.

University of Huaraz Public Lecture, *Abrupt Climate Change: Past, Present and Future*, July 5, Huaraz, Peru.

Parliament of Peru, *Understanding Climate Changes*, July 3, Lima, Peru.

Miller Institute of Basic Research in Science 11th Annual Symposium, *Understanding Climate Change*, June 1-3, Marconi Conference Center, University of California, Marshall, California.

Public Lecture, *Understanding Climate Changes*, Public Lecture, June 20, Sicuani, Peru.

Practical Action Lecture, *Abrupt Climate Change: Past, Present and Future*, Intermediate Technology Development Annex, June 16, Lima, Peru.

CMOS-CGU-AMS Congress Plenary Lecture, *Abrupt Climate Change: Past, Present and Future*, May 27-30, St. Johns, Canada.

Fermilab Invited Talk, *Glaciological Evidence of Abrupt Tropical Climate Change: Past, Present and Future*, May 18, Chicago, Illinois.

Climate Research Committee, **The National Academies**, Advisors to the Nation on Science, Engineering and Medicine, Spring Meeting, May 16-17, Washington, D.C.

Annual Signature Event Keynote Speaker for the League of Women Voters, *Understanding Climate Change from Ice*, Toledo/Lucas County, May 10, Toledo, Ohio.

Policy Forum, *Understanding Climate Change*, Page Hall, May 9, Columbus, Ohio.

Comer Science and Education Foundation, **Abrupt Climate Change Fellowship Conference,** *Calibration of Oxygen Isotopes in Tropical Ice Cores*, IBM Palisades Conference Center, May 2-5, New York, New York.

University Distinguished Lecture Series, *From the Mountain Tops: Evidence for Climate Change in Tropical Glacier*, Texas A&M University, May 1, College Station, Texas.

School of Geosciences, *Glaciological Evidence of Abrupt Tropical Climate Change: Past and Present*, Texas A&M University, College Station, Texas, April 29.

College of Math & Physical Sciences Lecture Series, *Abrupt Climate Change: Past, Present and Future*, **North Dakota State University**, Fargo Theater, April 24, Fargo, North Dakota.

U.S. Coast Guard Academy, *Understanding Climate Change from Ice*, April 16, New London, Connecticut.

Foster Hewitt Lectures at LeHigh University, *Abrupt Climate Change: Past, Present and Future*, EES Dept., April 6, Bethlehem, Pennsylvania.

Garden Club of Ohio, Inc., *The Disappearing World of Lonnie Thompson*, Keynote Speaker at 79th Annual Convention, Westin Great Southern Hotel, April 3, Columbus, Ohio.

Abrupt Climate Change: Past, Present and Future, **Invited Public Lecture at University of Arizona**, Institute for the Study of Planet Earth, March 23, Tucson, Arizona.

Abrupt Climate Change: Past, Present and Future, Nott Memorial Invited **Lecture at Union College**, Dept. of Environmental Sciences, February 28, Schenectady, New York.

The Adventure and Science of Glacier Research, **Distinguished Explorer Award Presentation/Lecture**, Beloit Memorial High School, and *Understanding Climate Change*, **Roy Chapman Andrews Society Distinguished Explorer Acceptance Lecture**, Eaton Chapel, February 22-23, Beloit, Wisconsin.

Chairman, **Nevada Climate Change Panel**, Nevada Water Resources Annual Conference, February 21, Reno, Nevada.

Abrupt Climate Change: Past, Present and Future, Keynote address for the **Nevada Water Resources Annual Conference**, February 21, Reno, Nevada.

Communicating and Learning About Global Climate Change, An Event for Teachers, Students, and other Communicators and Learners, Climate Change Town Hall Presentation at American Association for the Advancement of Science Annual Meeting, February 18, San Francisco, California.

Glaciological Evidence of Abrupt Tropical Climate Change: Past and Present, in Canary in the Coal Mine Section: Mountains and Climate Change, **American Association for the Advancement of Science Annual Meeting**, February 16, San Francisco, California.

Tropical Ice Cores, **Center for the Remote Sensing of Ice Sheets Winter Seminar Series**, University of Kansas, February 7, Lawrence, Kansas.

Scientific Case for Global Warming and its Causation: The Multiple Lines of Evidence, Sponsored by the **American Meteorological Society's Environmental Science Seminar Series**, January 31, Capitol Hill, Washington, D.C.

Abrupt Climate Change: Past, Present and Future, **Mechanical Engineering's Distinguished 125th Anniversary Lecture Series**, January 19, The Ohio State University, Columbus, Ohio.

Warriors and Heroes Against Global Warming, **Honors Collegium**, The Ohio State University, Kuhn Honors House, January 17, Columbus, Ohio.

2006 *Abrupt Climate Change: It Has Happened in the Past and It Might be Happening Now!* Lonnie G. Thompson and Ellen Mosley-Thompson. Public lecture at the **American Geophysical Union Meeting**, December 11, San Francisco, California.

Abrupt Climate Change: Past, Present and Future, Keynote address for the annual meeting of the **Ohio Turf grass Association**. December 5, Ohio Convention Center, Columbus, Ohio.

Global Warming: The Evidence, **Kuhn Honors Program Fireside Chat**, November 21, The Ohio State University, Columbus, Ohio.

Abrupt Climate Change: Past, Present and Future, Lecture at Westerville Public Library for the **Westerville Garden Center**. November 14, Westerville, Ohio.

Global Warming, Lecture at the **First Community Church**, November 12, Columbus, Ohio.

"Ice Hunter" by Naomi Lubick, *GeoTimes Earth, Energy and Environment News*, March, p. 28-29.

Glaciological Evidence of Abrupt Climate Change: Past, Present and Future Environmental Studies, **Colloquium at the University of Michigan**, Dearborn, November 10, Detroit, Michigan.

Global Climate Change: Past, Present and Future, **Lecture at the School of Natural Resources**, The Ohio State University, November 9, Columbus, Ohio.

Climate and Business, **Lecture for the Fisher College of Business**, The Ohio State University, November 8, Columbus, Ohio.

Global Warming: The Evidence, **Lecture at Upper Arlington High School**, August 20, Upper Arlington, Ohio.

Discussion Panel at the Drexel Gateway Theater for the opening of the new film *An Inconvenient Truth*, June 21, Columbus, Ohio.

Abrupt Climate Change: Past, Present and Future, **Linworth Alternative Program Lecture**, May 4, Worthington, Ohio.

The Ohio State University Media Day Presentation: *Glaciers, Ice Cores and Abrupt Climate Change*, April 10, Longaberger Alumni House, Columbus, Ohio.

Stephen J. Kopp, **Thirty Sixth Presidential Inauguration Lecture**. *Ice Cores, Glaciers, and Abrupt Climate Change*, Marshall University, April 21, Huntington, West Virginia.

Woods Hole Oceanographic Institution, Invited lecture, ICE course. *Glaciological Evidence of Abrupt Tropical Climate Change: Past, Present and Future*, Woods Hole Oceanographic Institute, March 23, Woods Hole, Massachusetts.

CIRES Distinguished Lecture, *Glaciological Evidence of Abrupt Climate Change: Past and Present*, University of Colorado, March 17, Boulder, Colorado.

Global Climate Change, The Arctic to the Rocky Mountain West, *Abrupt Tropical Climate Change: Past, Present, and Future*, Stegner Center, University of Utah, S. J. Quinney College of Law, March 3-4, Salt Lake City, Utah.

Ice Adventures: Tracking Evidence of Global Warming Around the World, **Charles and Ralph Dury Science Lecture**, Cincinnati Museum Center, March 2, Cincinnati, Ohio.

Global Warming, the Evidence For and How It Works, **Brookwood Presbyterian Church**, February 26, Columbus, Ohio.

East Asian Studies Lecture: Global Climate Change and the role of China, **East Asian Studies Lecture**, February 22, Columbus, Ohio.

Glaciological Evidence of Abrupt Tropical Climate Change: Past, Present and Future, **Colloquium at the Physics Department of The Ohio State University**, February 21, Columbus, Ohio.

2005 *Abrupt Tropical Climate Change: Past and Present*, **March of Dimes 2005 Awards Ceremony Keynote Speaker**, Greek Orthodox Church, November 16, Columbus, Ohio.

Glaciological Evidence of Abrupt Climate Change: Past and Present, Faculty of the Arts and Sciences, **Tuzo Wilson Lecture**, Department of Physics, University of Toronto, November 14, Toronto, Canada.

Abrupt Climate Change: Past and Present, **The Inaugural Geoffrey O. Seltzer Lecture**, College of Arts and Sciences, Syracuse University, November 7, Syracuse, New York.

Abrupt Climate Change in the Earth System: Past, Present and Future, The Ohio State University **Byrd Polar Research Center** seminar series, November 4, The Ohio State University, Columbus, Ohio.

Abrupt Tropical Climate Change: Past and Present and Abrupt Climate Change: Hurricanes and Ice Cores: Toward the Development of a Long-term Hurricane Perspective (with Y.C. Fang and D. Urmann) and *Ice Archives of Abrupt Environmental Change* (with Sangsuk Lee), **Gary Comer Abrupt Climate Change Fellowship Meetings**, IBM Palisades Conference Center, October 19 - 22, New York, New York.

Rapid Climate Change in the Earth System: Past, Present and Future, **The Harold McMaster Visiting Scientist**, College of the Arts and Sciences, Bowling Green State University, October 18, Bowling Green, Ohio.

Abrupt Climate change in the Earth System: Past, Present and Future, **Department of Geological Sciences, Virginia Polytechnic Institute and State University**, October 6-7, Blacksburg, Virginia.

Abrupt Climate Change and the Human Response, September 29, **Rotary Club of Circleville**, Ohio.

Abrupt Climate Change: Past and Present, **Georgia Institute of Technology, School of Earth Sciences**, September 22-23, Atlanta, Georgia.

Ice Adventures: Tracking Evidence of Abrupt Climate Change Across the Tropics, **Harrington Symposium on Abrupt Climate Change**, April 15. The University of Texas at Austin, Environmental Science Institute. Austin, Texas.

Tyler Prize Environmental Achievement award ceremony. Lecture: *Rapid Climate Change in the Earth System: Past, Present and Future*. April 6-9, Los Angeles, California.

Rapid Climate Change in the Earth System: Past, Present and Future. **Moore Lecture, University of Virginia**, March 31, Charlottesville, Virginia.

Climate Change: Ice Core Evidence. **2005 Whitney Symposium: Energy**, March 28 - 29. GE Global Research Center, Niskayuna, New York.

Abrupt Climate Change Plenary Program: Science and Aerospace Frontiers. **IEEE Aerospace Conference**. March 9-11, Big Sky, Montana.

Abrupt Climate Change. Department of Earth Sciences. Montana State University, March 11, Bozeman, Montana.

Glaciers, Ice Cores and Abrupt Climate Change. **Annual Department of Ophthalmology Meeting**, March 5, Columbus, Ohio.

Vanishing Mountain Glaciers: Evidence from the Ice of a Rapidly Changing Earth. **Pinhead Town Talks: Public High School**. Public lecture: Pinhead a Smithsonian Affiliate Institute. February 22, Mountain Village, Telluride, Colorado.

Glaciers, Ice Cores and Abrupt Climate Change. Closing Luncheon Presentation. February 18-19, Winter College, Naples, Florida.

Rapid Climate Change in the Earth System: Past, Present and Future. Whole Earth Systems; **Science, Technology and Policy Symposium**. February 10-12, Stanford University, Palo Alto, California.

Rapid Climate Change in the Earth System: Past, Present and Future. **University Honors Program, University of Alaska**. January 27, Anchorage, Alaska.

Rapid Climate Change in the Earth System: Past, Present and Future, **Department of Geography Colloquium**, University of Utah. February 4, Salt Lake City, Utah.

Vanishing Tropical Glacier. **Department of Geological Sciences. University of Cincinnati**, January 21, Cincinnati, Ohio.

Public Lecture: *Vanishing Tropical Glaciers*, **Upper Arlington Public Library**. January 19, Upper Arlington, Ohio.

An Abrupt Climate Change: Past, Present and Future. **University of Southern California, Santa Barbara. Department of Geological Sciences**, January 12, Santa Barbara, California.

2004 *Tropical Andean ice core and glacier retreat evidence for abrupt climate change*. **Second Symposium on Mass Balance of Andean Glacier Shrinkage in the Andes and Consequences for Water Resources**, July 6-9, Huaraz, Peru.

Low latitude mountain glacier evidence for abrupt climate changes. American Geophysical Union Fall Meeting, December 16, San Francisco, California.

Geoscience in a Changing World, *Low-latitude ice core evidence for asynchronous glaciation*. **Geological Society of America**, November 7-10, Denver, Colorado.

Commencement Speaker, *Lessons from the Mountains*, Winter 2004, *The Ohio State University*, Columbus, Ohio.

The Emiliani Lecture: *Tropical Ice Core Evidence for Rapid Holocene Climate Change and Asynchronous Glaciation*. Fall Meeting, AGU. December 15, San Francisco, California.

Worthington Hills Country Club, *Vanishing Tropical Glaciers: Evidence of a Rapidly Changing Earth*, November 18, Worthington, Ohio.

The Brodhead Watershed Association, *Rapid Climate Change in the Earth System: Past, Present and Future*. University of East Stroudsburg, October 21, Stroudsburg, Pennsylvania.

International Sustainability Days Conference, *Vanishing Tropical Glaciers*. Stanford University October 13-16, Stanford, California.

51st Annual Systematics Symposium Missouri Botanical Garden. Latin American Biogeography-Causes and Effects. *Ice Core Evidence for Tropical Climate Change: The Andes, Kilimanjaro and Tibet*. October 8-10, Missouri Botanical Garden, St. Louis, Missouri.

The 4th International Symposium on the Tibetan Plateau. *Plenary presentation: Evidence for Asynchronous Glaciation: The Ice Core Record from the Tibetan Plateau*. August 4-7, Lhasa, China.

H. Burr Steinbach Visiting Scholars Program, Lecture Series, Woods Hole Oceanographic Institution, July 27-29, Woods Hole, Massachusetts.

Cambio climatico global acelerado. *Pasado, presente y futuro de los recursos hidricos en el Peru*. July 12, Lima, Peru.

Second International Symposium on Mass Balance of Andean Glaciers *Glacier Shrinkage in the Andes and Consequences for Water Resources*. July 6-9, Huaraz, Anchash, Peru

Mountain Climate Sciences Symposium, Keynote Speech: *Ice core climate records from the high mountains of the world*. May 25-27, Kings Beach, California.

Glaciation, Climate Variability and Climate Dynamics in the Tropics. Topic: Tropical ice-core records for **Retirement Symposium** for Prof. Steven Porter, University of Washington, Seattle, Washington.

Benton Lecture Series, Department of Earth and Planetary Sciences, Johns Hopkins University. Lecture 1. *Rapid Climate Change in the Earth System: Past Present and Future*, and *Evidence for Asynchronous Glaciation on Milankovitch Time Scales*. April 26-28, Baltimore, Maryland.

Columbus Club. *Climate Change and the human connection*. **Medical Forum**, April 6, Columbus, Ohio.

23rd Annual Richard G. Osgood, Jr., Memorial Lecture: *Rapid Climate Change: Past, Present and Future*. March 31, Wooster, Ohio.

GSA Regional Meeting. *Tropical Ice Core and Glacier Retreat Evidence for Abrupt Holocene Climate Change.* March 27, Washington, D.C.

Invited lecture: *Ice cores and Climate Change.* **Proctor and Gamble**, March 16, Cincinnati, Ohio. Fund raiser for The Ohio State University.

Jane M.G. Foster Distinguished Lecture Series. Shawnee State University. *Rapid Climate Change in the Earth System: Past, Present and Future.* March 4, Portsmouth, Ohio.

Baldwin Distinguished Lectures, Miami University. *Rapid Climate Change: Past, Present and Future, and Evidence for Asynchronous Glaciation on Milankovitch Time Scales.* February 19-20, Miami, Ohio.

Women's Club of Canada. *Rapid Climate Change: Past, Present and Future.* February 12, London, Ontario, Canada.

Stanford University, Two invited lectures. *Ice Cores and an Archive of Paleoclimate, and Rapid Climate Change in the Earth System: Past, Present and Future.* February 2-4, Palo Alto, California.

2003 **Department of Atmospheric Sciences, University of Illinois Urbana-Champaign.** *Rapid Climate Change in the Earth System: Past, Present and Future.* Graduate Student Invited Lecturer. December 10, Urbana-Champaign, Illinois.

Department of Geological Sciences Seminar. *Rapid Climate Change in the Earth System: Past, Present and Future.* November 20, Princeton University, Princeton, New Jersey.

Centenary Lecture, University College London, Department of Geography. *Rapid Climate Change: A Tropical Perspective.* November 12, London, England.

Royal Geographical Society (with the Institute of British Geographers). Public Lecture. *Rapid Climate Change: Past, Present and Future.* November 10, London, England.

Water Management Association of Ohio, Annual Conference. *Climate Change and Future Water Resources.* November 5, Columbus, Ohio.

Lucas Lecture, Colorado School of Mines. Department of Chemistry and Geochemistry. *Rapid Climate Change in the Earth System: Past, Present and Future.* November 3-4, Golden, Colorado.

Older Wiser Lifelong Scholars: *Ice Cores Tell Us the Earth is Warming.* October 21, Westminster-Thurber Community, Columbus, Ohio.

Woods Hole Oceanographic Institution, **NSF Workshop.** *Research Plan for Abrupt Climate Change.* October 20, Woods Hole, Massachusetts.

Keynote address: **International Master Gardener Conference,** *The Iceman Cometh!* June 20, Cincinnati, Ohio.

The Ohio State University, **College of Food, Agriculture and Environmental Sciences, Annual meeting.** *Climate Change and Carbon.* Columbus, Ohio.

51st ASMS Conference on Mass Spectrometry and Allied Topics, Opening Plenary Lecture. *Rapid Climate Change: Past, Present and Future.* June 9, Montreal, Canada.

International Symposium on Isotope Hydrology and Integrated Water Resources Management. Keynote address: *Stable Isotopes on Seasonal To Millennial Time Scales as Recorded in Low-Latitude, High-Altitude Ice Cores.* May 19-23, Vienna, Austria.

Rapid Climate Change in the Earth System: Past, Present and Future. **Wiener Physikalisches Institut, Vienna, Austria,** May 16.

Rapid Climate Change in the Earth System. April 30, **Carnegie Institute,** Washington, D.C.

Institute of Tibetan Plateau Research Lecture. **Chinese National Academy of Sciences.** March 22. Beijing, China.

PACLIMXX Keynote Lecture. *Rapid Climate Change: Past Present and Future.* April 7, Monterey Bay Aquarium, Monterey, California.

Morgan Lecture Series: Technical Lecture. *Tropical Ice Core Records: Evidence for Asynchronous Glaciation.* Rankin Science Room, Appalachian State University. Public Lecture Farthing Auditorium. March 4. *Rapid Climate Changes in the Earth System: Past, Present and Future.*

Three lectures to high school students as Science North, Explore Science Series in **INCO Cavern on Global Climate Change.** *In Search of Climate Change.* February 20. Evening public Lecture.

Green Energy Ohio, 3rd Annual Meeting. Guest Speaker. *Rapid Climate Change in the Earth Systems and Sustainability.* February 15, Ohio Historical Center, Columbus, Ohio.

Rapid Climate Change in the Earth System. February 10, University of Albany, Albany, New York.

Invited Lectures. *Rapid Climate Change in the Earth System: Past, Present and Future,* and *Tropical ice core records: Compelling evidence for asynchronous glaciation on Milankovitch timescales.* January 23-24, Purdue University, West Lafayette, Indiana.

A look at Climatic Change. EAGLE, January 13, Columbus, Ohio.

2002 *Tropical and Subtropical Ice Core Climate Records of the Last Two Millennia.* Invited Lecture: **American Geophysical Union Fall Meeting.** San Francisco, California.

Ice Core Evidence of Past Changes in the Hydrological Cycle of the Tropics and Subtropics. Invited lecture: **American Geophysical Union Fall Meeting.** San Francisco, California.

Jacob A. Bjerknes Distinguished Lecture. *Rapid Climate Change in the Earth System: Past, Present, Future.* UCLA, Los Angeles, California.

Tropical ice core records of changes in symmetry, position and/or intensity of the Hadley Circulation on Milankovich, millennial, and centennial time scales. University of Hawaii at Manoa, Honolulu, Hawaii.

LSU Chancellor's, Distinguished Lecture Series. *Rapid Climate Change in the Earth System: Past, Present and Future,* and *Ice Core Paleoclimatology.* Louisiana State University, Baton Rouge, Louisiana.

Changes in global ice sheet and related climate variations over the last 11,000 years.
Harvard University, John F. Kennedy School of Government. Al Gore Lecture.
Boston, Massachusetts.

Climatic Surprises: The Records from Glaciers and Ice Cores. Columbia University,
Lamont, New York.

Dr. A.H. Heineken Prize for Environmental Sciences Lecture. *Rapid Climate Change
in the Earth System: Past, Present and Future.* Utrecht University, Utrecht, Netherlands.

Swiss Academy of Sciences Keynote Lecture: *Climatic Surprises: The Records from
Glaciers and Ice Cores.* Davos, Switzerland.

Vega Medal Symposium. *Rapid Climate Change in the Earth System: Past, Present
and Future.* Stockholm, Sweden.

Common Wealth Science and Invention Award Lecture. *Earth's ancient climate
history and global warming.* Wilmington, Delaware.

*Rapid Climate Change in the Earth System: Tropical Ice Core Records, Compelling
Evidence for Asynchronous Glaciation on Milankovitch Timescales, and Kilimanjaro Ice
Core Records: Evidence of Holocene Climate Change in Tropical Africa.* Yale University,
New Haven, Connecticut.

Invited lecturer. **Association of American Geographers Lecture.** *Disappearing
Glaciers: Evidence of a Rapidly Changing Earth.* Los Angeles, California.

Invited lecturer. *Rapid Climate Change in the Earth System.* **John Marshall Lecture.**
Marshall University, Huntington, West Virginia.

OSU Sigma Xi Lecture. *Global Climate Change.* Byrd Polar Research Center,
Columbus, Ohio.

Bownocker Lectures, The Ohio State University, Columbus, Ohio.

Disappearing Glaciers: Evidence for a Rapidly Changing Earth. University of
Washington, Seattle, Washington.

Understanding Global Climate Change: Perspective from Earth Science. Rice University,
Houston, Texas.

Invited lecturer. *Climate Change of the Past; Lessons for the Future.* Oregon State
University, Corvallis, Oregon.

2001 *Ice from Thin Air.* University of Florida, Gainesville, Florida.

International Conference on Past Climate Variability through Europe and Africa,
Aix-en Provence, France.

Global Change Open Science Conference. *Challenges of a Changing Earth.*
Amsterdam, The Netherlands.

Workshop on Climate Change at High Elevation Sites: Emerging Impacts (HIGHEST
II), Davos, Switzerland.

Asian Monsoons and Global Linkages on Milankovitch and Sub-Milankovitch. Beijing,
China.

Central Andean Paleoclimate Workshop, University of Arizona, Tucson, Arizona.

Invited speaker. **Earth Sciences Spring Speaker Series**, University of Southern California, Los Angeles, California.

Bader Lecture, Rosenstiel School of Marine and Atmospheric Sciences, University of Miami, Florida.

Second Wadati Conference on Global Change and the Polar Climate, Tsukuba Science City, Japan.

12th International Hypoxia Symposium, Jasper, Canada.

Quay Hebrew Lecturer, Brigham Young University, Provo, Utah.

International Atomic Energy Agency: International Conference on the Study of Environmental Change Using Isotopic Techniques. International Centre, Vienna, Austria.

Workshop on Climate Change at High Elevation Sites: Emerging Impacts, Davos, Switzerland.

IGBP Global Change Open Science Conference; Amsterdam, The Netherlands.

International Conference on Past Climate Variability through Europe and Africa, Aix-en Provence, France.

Additional presentations given at the Chinese Academy of Sciences, Beijing, China; Explorers' Club, Columbus, Ohio; Linworth Alternative Program, Worthington, Ohio; Columbus Rock and Mineral Club, Columbus, Ohio.

2000 **LDEO NOAA/CORC Miniconference on the Little Ice Age and Medieval Warm Period**, Columbia University, New York City, New York.

Laboratory of Ice Core and Cold Regions Environment Cold and Arid Regions Environmental and Engineering Research Institute, **Chinese Academy of Sciences**, Lanzhou, China.

Invited Lecture, **Core Scientific Perspectives Program, Colgate University**, Hamilton, New York.

London Quaternary Lectures, University of London, London, England.

International Symposium on Atmosphere-Ocean-Cryosphere Interaction in the Sea of Okhotsk and the Surrounding Environment, Sapporo, Japan.

Additional presentations given at GeoCanada; Optimist International Club of Columbus, Ohio; Colegio de Ingenieros del Peru, Cuzco, Peru; University of Edinburgh, Scotland.

1999 **First Community Church Global Concerns Task Force**, Grandview, Ohio.

Abrupt Climate Change in the Tropics, **NOAA meeting**, Key West, Florida.

American Association of Petroleum Geologists, San Antonio, Texas.

Testimony to H.C.R. 6 on Kyoto Protocol April 28, before the Ohio Senate **Energy, Natural Resources, and Environment Committee**, Statehouse, Columbus, Ohio.

- INQUA, XV International Congress**, Durban, South Africa.
- Economic History Association**, Baltimore, Maryland.
- AGU Chapman Conference on Water Vapor in the Climate System**, Potomac, Maryland.
- National Institute of Standards and Technology**, Gaithersburg, Maryland.
- PAGES/CLIVAR International Workshop**, Venice, Italy.
- U.S. Global Change Research Program Seminar**, Washington, D.C. Capitol Hill.
- Additional presentations** given at University of California, Berkeley, California; Duke University, Durham, North Carolina; University of Massachusetts, Amherst, Massachusetts; Rotary Club, Columbus, Ohio; Acoustical Society of America, Columbus, Ohio.
- 1998 **PAGES PEP1 Pole-Equator-Pole Paleoclimate of the Americas**, Merida, Venezuela.
- PAGES Open Science Meeting**, University of London, London, England.
- United Nations Lecture tour**, China.
- ISOMAP Workshop on Reconstructing the Isotopic Composition of Past Precipitation from Continental Archives**, Vienna, Austria.
- FERCO International Conference on Climate and Culture at 3,000 B.C.**, University of Maine, Orono, Maine.
- University Distinguished Lecture**, The Ohio State University, Columbus, Ohio.
- Nordberg Lecture NASA**, Greenbelt, Maryland.
- International Workshop on Climate Variability in the Americas from High Elevation Ice Cores**, Bariloche, Argentina.
- Additional presentations** given at Postgraduate Symposium in Ophthalmology; University of Washington, Seattle, Washington.
- 1997 Invited Lecture, Johns Hopkins University, Baltimore, Maryland.
- Chauncey D. Holmes Lecturer**, Syracuse University, Syracuse, New York.
- 1996 **The University Women's Club**, The Ohio State University, Columbus, Ohio.
- Global Change lecture series**, The University of Arizona, Tucson, Arizona.
- Invited Lecture, Department of Earth and Planetary Sciences, Harvard University, Cambridge, Massachusetts.
- The International Workshop on Environment and Engineering Relating to Snow and Ice in Polar Regions (EERSIPR)**, Lanzhou, China.
- Andes Symposium**, The Field Museum, Chicago, Illinois.
- American Quaternary Association**, keynote speaker, Flagstaff, Arizona.
- IGBP/PAGES Workshop: Annual Records of Tropical Systems. (ARTS)**, Kauai, Hawaii.

Workshop on The Role of Polar Processes in Global Change, Cancun, Mexico.

Inter-American Institute for Global Change Workshop: The assessment of Present, Past and Future Climate Variability in the Americas from Treeline Environments. Alberta, Canada.

Glaciers from the Alps: Climate and Environmental Archives, **Wengen**, Switzerland.

International PAGES-CLIVAR Joint Workshop Group, Villefranche-sur-Mer (France).

Workshop on Polar Processes and Global Climate, Cancun, Mexico.

International Symposium of the Earth System Evolution Programs, Canadian Institute for Advanced Research, Toronto, Canada.

Additional presentations given at Penn State University, State College, Pennsylvania; Cornell University, Ithaca, New York; The Canadian Institute for Advanced Research: Ontario Science Center, Toronto, Canada.

1995 **International Workshop on Tracing Isotopic Composition of Past and Present Precipitation-Opportunities for Climate and Water Studies**. WMO-IAEA, Rütihubelbad Congress, Switzerland.

PAGES PEP-1 Meeting, La Paz, Mexico.

Special Lecture Series, **Lamont-Doherty Earth Observatory** (Climate Center), Columbia University, Palisades, New York.

U.S. Global Change Research Program Seminar Series, Washington, D.C.

Workshop on Climate Change at High Elevation Sites, Wengen, Switzerland.

Fall Speaker Series, Princeton, New Jersey.

Past Global Change Distinguished Lecture Series, University of Colorado, Boulder, Colorado.

Department of Geology and Geophysics Lecture Series, University of Chicago, Chicago, Illinois.

Invited Lecture, Nagoya University, Nagoya, Japan.

1994 Invited lecturer, Frontiers in Engineering and Physical Science Technology, **American Association for the Advancement of Science**.

National Academy of Sciences/National Research Council Workshop on Surficial Processes in the U.S. Global Change Research Program. Washington, D.C.

NOAA Panel on Climate and Global Change, Marietta, Georgia.

Abrupt Climate Change Workshop, Washington, D.C.

White House breakfast with Vice President, Al Gore and the head of 8 Federal Agencies to discuss glaciers and ice cores.

International Symposium on the Role of the Cryosphere in Global Change, oral paper.

Environmental Lecture Series, Ashland University, Ashland, Ohio.

- NATO Advanced Research Workshop** on "Climatic Variations and Forcing Mechanics of the last 2000 years". Il Ciocco, Italy.
- NOAA Scientific Advisory Panel of the Climate and global Change Program Fall Meeting**, Washington, D.C.
- PAGES-CLIVAR Workshop on paleoclimate variability and prediction**, Venice, Italy.
- 1993 **Quaternary Research Center Distinguished Lecture Series**, University of Washington, Seattle, Washington.
- PAGES workshop** "High Resolution Records of Past Climate from Monsoon Asia: The Last 2000 years and Beyond," Taipei, Republic of China.
- AGU Spring Meeting, Baltimore, Maryland.
- Seminar Series, Cooperative University-based Program in Earth Systems Science Education New York University, New York.
- ElectroPeru Special Lecture**, Lima, Peru.
- The Fifth International Symposium on Antarctic Glaciology**, Cambridge, England.
- International Symposium on Seasonal and Long Term Fluctuations of Nival and Glacial Processes in Mountains**, Tashkent, Republic of Uzbekistan.
- NSF/PAGES Pole-Equator-Pole Workshop, Panama.
- Richard Foster Flint Distinguished Lecture Series**, New Haven, Connecticut.
- Additional presentations** given at Department of Geological Sciences, University of Michigan, Ann Arbor, Michigan; Ohio EPA, Ohio Historical Society, Columbus, Ohio; Science teachers in Global Change, Columbus, Ohio.
- 1992 The American Society of Limnology and Oceanography, Santa Fe, New Mexico.
- American Institute of Professional Geologists**, Ohio Section Annual Banquet.
- Distinguished Lecture Series, Northern Arizona University, Flagstaff, Arizona.
- Additional presentations** given at Miami University, Oxford, Ohio; Cornell University, Ithaca, New York.
- 1991 **Medieval Warm Period Workshop**, Tucson, Arizona.
- International Union for Quaternary Research, XIII International Congress, Beijing, China.
- Japan - U.S. Workshop on Global Change Research**, Tsukuba, Japan.
- 1990 University of Arizona Global Change Lecture Series, Tucson, Arizona.
- Workshop on Climate Variability of the Eastern Pacific and Western North America**, Monterey, California.
- Workshop on Paleoclimatic Aspects of El Niño/Southern Oscillation**, Boulder, Colorado.
- 1989 PACLIM, Monterey, California.

- Office of Interdisciplinary Earth Sciences (now Earth System Science Interdisciplinary Center), University of Maryland College Park, Maryland.
- Tropical Oceans and Global Atmosphere Advisory Board.
- Global Change Institute on Trace Gases and the Biosphere, Snowmass, Colorado.
- Symposium on Ice and Climate, International Glaciological Society, Seattle, Washington.
- US/USSR Glaciology Workshop, Washington, D.C.
- 1988 Invited lecture, Lamont-Doherty, Palisades, New York.
- Jacob Bjerknes Symposium on Air-Sea Interactions, 68th Annual Meeting of the AMS, Anaheim, California.
- NSF-NOAA Paleo-Ecology Workshop, Boston, Massachusetts.
- First International Congress in Geography of the Americas, Lima, Peru.
- Conferencia Cientifica, SENAMHI, Lima, Peru.
- European Geophysical Society, XIII General Assembly, Bologna, Italy.
- Workshop on Ground Penetrating Radar, Geological Survey of Canada and Federal Panel for Energy Research and Development, Ottawa, Canada.
- National Museum of the Natural Sciences, Climate Change Project, Ottawa, Canada.
- Global Change Research Institute, Snowmass, Colorado.
- 1987 Fourth Conference on Climate Variations, Baltimore, Maryland.
- The Moore Lecture, University of Virginia, Charlottesville, Virginia.
- Fourth Workshop on Climate Variability of the Eastern North Pacific and Western North America, Pacific Grove, California.
- NSF Climate Workshop, Hedgesville, West Virginia.
- Historical Climate Data Workshop, National Academy of Sciences, Washington, D.C.
- City Club, Marshall University.
- 1986 USGS Workshop on Climatic Variability of the Eastern North Pacific and Western North America, Monterey, California.
- NASA Scientific Colloquia, Goddard Space Flight Center, Greenbelt, Maryland.
- Chapman Conference on El Niño and International Symposium, Guayaquil, Ecuador.
- American Anthropological Association, 85th Annual Meeting, Philadelphia, Pennsylvania.
- 1985 NATO/NSF Workshop on Abrupt Climatic Change, Biviers, France.
- 1984 Seminar de la Geologia Nacional, Lima, Peru.
- 1982 Lunar and Planetary Institute Workshop on Antarctic Glaciology and Meteorites.
- 1981 International Geoscience and Remote Sensing Symposium, Washington, D.C.

1979 International Union of Geodesy and Geophysics Symposium Canberra, Australia.

1978 IV Congreso Peruano de Geologia, Lima, Peru.

Mentor and Advisor

Current: Zhi-Ping Zhong (Post Doc 2016-2018); Kara Lamantia (MS expected 2018)

MS Students: Karl Philippoff (2013); Katelyn Johnson (2012); Donald Permana (2011); Elizabeth Birkos (2009); Aron Buffen (2008); Paul Dickfoss (1996).

PhD Students: Donald Permana (2015); Natalie Kehrwald (2009); David Urmann (2009); Mary Davis (2002); Keith Henderson (2002).

Post Docs: Kequin Duan (2006-2007); Y.C. Fang (2004-2006); Sangsuk Lee (2003-2006); Matthew Makou (2007-2012); Broxton Bird (2009-2011); You-Qing Wang (2010-2012); Chiara Uglietti (2012-2013); Anna Wegner (2013-2014).

Student and Post-Doc Honors/Recognition

2012 Uglietti, Chiara. 7th Annual International Scholar Research Exposition, November 5 – December 31, The Ohio State University, Bricker Hall, Columbus, Ohio. Poster entitled, *Recent environmental change as recorded by Andean ice-core glacio-chemistry.*

Internal University Appointments - The Ohio State University

2015-16 Search Committee Chair, Search for the Director of the Byrd Polar and Climate Research Center

2015 Provost's Committee for Sustainability Goals Project Report

2009 Search Committee Chair, Search for Director of School of Earth Sciences

2007 Search Committee Member - Search for Director of Byrd Polar Research Center

2005 Chairman, Internal Review Committee: School of Natural Resources

2003-05 Department of Geological Sciences Strategic Planning Committee

2005 University Change Steering Committee

2002-03 President and Provost Advisory Committee

2002-03 Dean of the College of Math and Physical Sciences Advisory Committee

2001-02 University Committee for establishing a University wide environmental program on Climate Change and Environmental Research Initiative (CCERI)

2000-02 University Oversight Committee: The John Glenn Institute of Public Service and Public Policy

1999-00 Departmental Selective Investment Committee

1998-99 Health and Safety, Department of Geological Sciences

- 1998-99 College of Math and Physical Sciences Promotion and Tenure Committee Member
- 1998-99 Department of Geological Sciences Chairman Search Committee
- 1998-99 College of Math and Physical Sciences, Environmental Initiative Committee
- 1997-00 Chairman, Search Committee for Environmental Isotope Geochemistry position for the Department of Geological Sciences
- 1997-03 Chairman, Department of Geological Sciences Advisory Committee
- 1996 Chairman, Department Geological Sciences and the College of Math and Physical Sciences Promotion and Tenure Committees
- 1996 College of Math and Physical Sciences Promotion and Tenure Committee Member
- 1995 Committee on Environmental Sciences and Engineering Provost Ad Hoc
- 1995 Department of Geological Sciences and the College of Math and Physical Sciences Promotion and Tenure Committees
- 1995 Dean of College of Math and Physical Sciences Faculty Advisory Committee
- 1994 Graduate Studies Committee, OSU Department of Geological Sciences
- 1990 OSU Review Committee for University Grants
- 1990 OSU College of Math and Physical Sciences Interdisciplinary Committee
- 1988 OSU Vice Provost Committee to Review Status of Research Positions, Librarians, etc.