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Education

1998 - 2000

M.S.E. (May 2000), *Computer Science in Engineering*, Department of Electrical Engineering and Computer Science, University of Michigan.

1992 – 1996

Postdoctoral Research Fellow, *Geophysics*, Department of Geological Sciences, University of Michigan, Ann Arbor, Michigan.

1986 - 1990

Ph.D. (April, 1990), *Geothermics and Tectonics*. Institute of Geology, Academia Sinica, Beijing, China.

1987 - 1988

Certificate (October, 1988), *Energy Technology (Geothermal)*. Geothermal Institute, University of Auckland, New Zealand.

1983 - 1986

M.Sc. (June, 1986), *Tectonics*. Graduate School, The University of Science and Technology of China, and Institute of Geology, Academia Sinica, Beijing, China.

1978 - 1982

B.Eng. (July, 1982), *Radio-Geophysical Prospecting*. Chengdu College of Geology, Chengdu, Sichuan Province, China.

Professional positions

1996 – Present

Associate Research Scientist (September 2005 – present), Assistant Research Scientist (March 1996 – September 2005), Manager of the Geothermal Lab (1996-2001), Department of Geological Sciences, University of Michigan., Ann Arbor, Michigan.

2001 – 2006

Senior Member of Technical Staff, Geac Enterprise Solutions, Inc. (formerly Comshare Incorporated, now Infor), 555 Briarwood Circle, Ann Arbor, MI 48108. January 2001 – March 2006.

1983 – 1992

Research Associate (1992), Research Fellow (1989 - 1992), Research Assistant (1986 - 1989), Institute of Geology, Chinese Academy of Sciences, Beijing, China.

1982 – 1983

Engineer, 321 Geological Team of Fujian Geological Bureau, Fujian, China.

Membership in Professional Societies:

- American Geophysical Union
- Committee on Space Research, International Council for Science
- International Heat Flow Commission, International Association of Seismology and Physics of the Earth's Interior.

Community outreach

- Since 2005: NASA Goddard Space Flight Center Sun-Climate Center, member of external panel
- 2001 – 2004: Board member, AnnHua Chinese School, Ann Arbor, Michigan.
- Since 1998: Technical Committee, University of Michigan China Data Center.
- Since 1995: The International Heat Flow Commission, International Association of Seismology and Physics of the Earth's Interior.

Publications

- Huang, S., 2006. Surface Temperatures at the Nearside of the Moon as a Record of the Radiation Budget of Earth's Climate System, *Advances in Space Research*, submitted.
- Huang, S., 2006. The status and outlook of the continental lithosphere warming. *Earth and Planetary Science Letters*, submitted.
- Huang, S., 2006. Land warming as part of global warming. *EOS, Transactions of the American Geophysical Union*, 87 (44), Pages 477,780.
- Pollack, H.N., Huang, S., Smerdon, J.E., 2006. Five centuries of climate change in Australia: The view from underground. *J. Quaternary Science*, 21 (7): 701-706.
- Huang, S., 2006. Consolidating high and low resolution information from different sources into a Northern Hemisphere climate reconstruction. *PAGES Newsletters*, 14(2): 22-24.
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- Huang, S., 2005. Climate blog could score with newer hockey stick. *Nature* 433, 800, doi:10.1038/433800b.
- Huang, S., 2004. Merging Information from Different Resources for New Insights into Climate Change in the Past and Future. *Geophys. Res. Lett.* 31, L13205, doi:10.1029/2004GL019781.
- Huang, S., 2004. Integrated Northern Hemisphere Surface Temperature Reconstruction. IGBP PAGES/World Data Center for Paleoclimatology Data Contribution Series #2004-063. NOAA/NGDC Paleoclimatology Program, Boulder CO, USA. <http://www.ncdc.noaa.gov/paleo/pubs/huang2004/huang2004.html>
- Pollack, H.N., Demezhko, D.Yu., Duchkov, A.D., Golovanova, I.V., Huang, S., Shchapov, V.A., and Smerdon, J.E., 2003. Surface temperature trends in Russia over the past five centuries reconstructed from borehole temperatures. *Journal of Geophysical Research*. 108 (B4): art. no. 2180.

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- Pollack, H. N. and Huang, S., 2001. Ground Temperature, in *Encyclopedia of Global Environmental Change*, v.1, M. McCracken, J. S. Perry, eds., John Wiley & Sons, pp.422-426.
- Huang, S., Pollack, H. N., and Shen, P.Y., 2000. Temperature trends over the past five centuries reconstructed from borehole temperatures. *Nature*, 403: 756-758.
- Pollack, H.N. and Huang, S., 2000. Climate reconstruction from subsurface temperatures, *Ann. Rev. Earth Planetary Sci.*, 28: 339-365.
- Huang, S., Pollack, H. N., and Shen, P.Y., 1999. Global database of borehole temperatures and climate reconstructions. *PAGES Newsletters*, 7(2): 18-19.
- Huang, S. and Pollack, H.N., 1998. Global borehole temperature database for climate reconstruction. *IGBP PAGES/World Data Center-A for Paleoclimatology Data Contribution Series #1998-044*. NOAA/NGDC Paleoclimatology Program, Boulder CO, USA. <http://www.ncdc.noaa.gov/paleo/borehole/borehole.html>
- Pollack, H.N., Huang, S., and Shen, P.Y., 1998. Climate change record in subsurface temperatures: A global perspective. *Science*, 282: 279-281.
- Huang Shaopeng, 1998, Aggregate global scale analysis of relationship between heat flow and heat production. *Acta Geophysica Sinica*, 41 (Supplement): 83-94.
- Pollack, H.N. and Huang, S., 1998. Underground temperatures reveal changing climate. *Geotimes*, 43: 16-19.
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- Huang, S., Shen, P. Y. Pollack, H.N., 1996, Deriving century-long trends of surface temperature change from borehole temperatures, *Geophys. Res. Lett.*, 23: 257-260.
- Shen, P.Y., Pollack, H.N., Huang, S., 1996, Inference of ground surface temperature history from borehole temperature data: A comparison of two inverse methods. *Global and Planetary Change*, 14: 49-57.
- Pollack, H.N., Shen, P.Y., Huang, S., 1996, Inference of ground surface temperature history from subsurface temperature data: Interpreting ensembles of borehole logs. *Pure and Applied Geophysics*, 147: 537-550.
- Huang Shaopeng, Wang Jiyang, and Chen Moxiang, 1996. Temperature at the Moho. In Yuan Xuecheng (Chief Compiler), *Atlas of Geophysics in China* (Publication No.201 of the International Lithosphere Program), Geological Publishing House, Beijing, pp. 105-107.
- Huang Shaopeng, Wang Jiyang, and Chen Moxiang, 1996. Thickness of the Thermo-Lithosphere. In Yuan Xuecheng (Chief Compiler), *Atlas of Geophysics in China* (Publication No.201 of the International Lithosphere Program), Geological Publishing House, Beijing, pp. 109-111.
- Wang Jiyang, Huang Shaopeng, and Chen Moxiang, 1996. The Terrestrial Heat flow. In Yuan Xuecheng (Chief Compiler), *Atlas of Geophysics in China* (Publication No.201 of the International Lithosphere Program), Geological Publishing House, Beijing, p.101-103.

- Shen, P.Y., Pollack, H.N., Huang, S. and Wang, K., 1995. Effects of subsurface heterogeneity on the inference of climate change from borehole temperature data: model studies and field examples from Canada. *J. Geophys. Res.*, 100, 6383-6396
- Huang, S., Pollack, H.N., Wang, J.-Y. and Cermak, V., 1995. Ground surface temperature histories inverted from subsurface temperatures of two borehole located in Panxi, SW China. *Journal of Southeast Asian Earth Sciences*, 12: 113-120.
- Huang, S., Pollack, H.N., Shen, P. Y. and Wang, J.-Y., 1995. Reading paleoclimate from borehole temperature profiles: Principles and examples from North America and Southwest China. *Quaternary Sciences*, No. 3, 213-222.
- Wang Jiyang and Huang Shaopeng, 1995. Heat flow pattern and its implications for tectonics in the continental area of China. In M.L. Gupta and M. Yamano (eds.), *Terrestrial Heat Flow and Geothermal Energy in Asia*. Oxford & IBH Publishing Co. Pvt. Ltd., New Delhi, pp.83-94.
- Huang Shaopeng, 1993, Variations of heat flow and crustal thickness in the continental area of China. *Chinese Journal of Geophysics*, Vol.35, 393-403.
- Shaopeng Huang and Jiyang Wang, 1992, Heat flow distribution and thermal structure of the continental area of China. In Wang Shijing (ed.), *Advances in Geosciences (2)*, China Ocean Press, Beijing, 361-372.
- Shaopeng Huang and Jiyang Wang, 1992, Variations of heat flow and Pn-velocity in the continental area of China. *Acta Seismologica Sinica*, Vol.5, No.4, 729-738.
- Huang Shaopeng and Wang Jiyang, 1991, Several heat flow values from deep drill holes in the Northwest Depression of the Sichuan Basin, SW China. *Chinese Science Bulletin*, Vol.36, No.1, 47-51.
- Huang Shaopeng and Wang Jiyang, 1991, On variations of heat flow and Pn velocity -- A case study from the continental area of China. *J. of Geodynamics*, Vol.14, No.1, 13-28.
- Huang Shaopeng, 1990, *Distribution of heat flow in the Continental Area of China*. Dissertation for Ph.D., Institute of Geology, Chinese Academy of Sciences.
- Wang Jiyang and Huang Shaopeng, 1990, Compilation and statistic analysis of heat flow data from the continental area of China. *CCOP Tech. Bull.*, Vol.21, 43-58.
- Wang Jiyang and Huang Shaopeng, 1990, The thickness of the lithosphere in the Panxi Paleorift Zone, Southwestern China. In V.Cermak and L. Rybach (eds.), *Terrestrial Heat Flow And The Lithosphere Structure*, Springer-Verlag, Berlin, pp. 308-316.
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- Wang Jiyang, Wang Ji'an, Huang Shaopeng and Zhang Wenren, 1988, Terrestrial heat flow. In Chong Belin (ed.), *The Formation and the Evolution of the Panxi Paleorift*, Science Press, Beijing, pp.350-369 (in Chinese).
- Wang Jiyang, Wang Ji'an, Huang Shaopeng, Zhang Wenren, Zhou Yousong, and Jin Xin, 1988, Deep heat flow in Panxi Paleorift zone. *Earth Science -- J. of China Univ. of Geosciences*, Vol.13, No.3, 285-290 (in Chinese with English abstract).
- Wang Jiyang and Huang Shaopeng, 1988, Compilation of heat flow data for the continental area of China. *Scientia Geologica Sinica*, No.2, 196-204.
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- Wang Jiyang and Huang Shaopeng, 1987, Linear relationship between heat flow and heat production in Panxi Paleorift Zone. *Geophys. Res. Lett.*, Vol.14, No.3, 272-274.
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Abstracts

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- Huang, S. 2006. The warming of the continents. Western Pacific Geophysics Meeting. Beijing, July 24-27, 2006

- Huang, S., Li, C., Li, J., Wang, J., Shi, Y., 2006. A prospective project of the Chang'E Program: Engaging the Moon in the study of terrestrial climate change. The 36th Scientific Assembly of COSPAR. Beijing, July 16-23, 2006.
- Huang, S., 2006. Detecting change in Earth's radiation budget from the surface temperature time series from the Apollo 15 landing site. The 36th Scientific Assembly of COSPAR. Beijing, July 16-23, 2006.
- Wieczorek, M. A., Huang, S., 2006. The heat flow of the Moon, revisited. The 36th Scientific Assembly of COSPAR. Beijing, July 16-23, 2006.
- Wieczorek, M.A. and Huang, S., 2006. A reanalysis of Apollo 15 and 17 surface and subsurface temperature series. The 37th Lunar and Planetary Science Conference. League City, Texas, March 13–17, 2006,
- Huang, S., 2005. Heat Budget of the World Continents Over the Past 154 Years, EOS Transactions American Geophysical Union, Fall Meet. Suppl., Abstract U21A-0802.
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- Huang, S. Lunar Regolith Temperature as a Monitor of the Radiation Budget of Earth. Decadal Variability in the Sun and Climate, October 27-29, 2004, Meredith, New Hampshire.
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- Huang, S. The moon: a new platform for terrestrial climate research. 35th COSPAR Scientific Assembly. Paris, France, 18 - 25 JULY 2004
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- Huang, S., Pollack, NH., 2002. Embedding the long term trend into an annually resolved northern hemisphere climate reconstruction. International Conference on East Asian Climate, August 7-9, 2002. Harbin, China. Book of Abstract, p.20.
- Smerdon, J. E., Beltrami, H., Pollack, H. N., Huang, S., 2001. Continental heat gain in the global climate system. EOS Transactions American Geophysical Union v.82, n.47, p.F302.
- Huang, S. and Pollack, H.N., The Moon — A Witness of the Anthropogenic Effect of the Global Warming? 6th Annual Michigan Space Grant Consortium Conference, October 27, 2001. Ann Arbor, MI.
- Huang, S. and Pollack, H.N., 2000. Integrated reconstruction of a Northern Hemisphere ground surface temperature history based on borehole temperatures and

- conventional proxy models. EOS Transactions American Geophysical Union, Vol. 81, No. 28 (supp), p.F77.
- Pollack, H.N., Huang, S., and Smerdon, J., 2000. Temperature trends over the past five centuries reconstructed from borehole temperatures: temporal and spatial patterns. EOS Transactions American Geophysical Union, Vol. 81, No. 28 (supp), p.F28.
 - Huang, S. and Pollack, H.N., 2000. Exploitation of the Global Database of Borehole Temperatures for New Insights Into Regional Variability of Climate. 2000 Western Pacific Geophysics Meeting, June 27-30, 2000. Tokyo, Japan. EOS Transactions American Geophysical Union, Vol. 81, No.22 (supp.), p.WP54.
 - Pollack, H.N. and Huang, S., 1999. Climate change revealed by subsurface temperatures: a global perspective. International Conference "Monitoring of Cryosphere" Abstracts, p.112.
 - Huang, S. and Pollack, H.N., 1999. Integrative reconstruction of a global ground surface temperature history from borehole temperatures and other proxies. IUGG 99, Birmingham, UK. July 18-30, 1999.
 - Pollack, H.N. and Huang, S., 1999. Climate change revealed by subsurface temperatures: A global perspective. IUGG 99, Birmingham, UK. July 18-30, 1999.
 - Huang, S., 1999. Borehole temperatures and climate reconstructions. PAGES/CLIVAR Data Workshop, January 15-17, 1999. Boulder, CO.
 - Huang, S. and Pollack, H.N., 1998. Global database of borehole temperatures and climate reconstructions. World Data Center A - for Paleoclimate. December 19, 1998. Boulder, CO.
 - Pollack, H.N. and Huang, S., 1998. Climate reconstruction from subsurface temperatures: A global perspective. In Proceedings of the International Conference on the Earth's Thermal Field, Moscow, Russia. p.209.
 - Pollack, H.N., Huang, S., and Shen, P.Y., 1998. Climate change revealed by subsurface temperatures: A global perspective. 1998 AGU Fall Meeting, December 6-10, 1998, San Francisco, EOS Transactions American Geophysical Union, Vol. 79, No. 45 (supp.), p.F833.
 - Huang, S. and Pollack, H.N., 1998. Global change over the last five centuries as recorded in borehole temperatures. 1998 Symposium for Young Chinese Scientists on Natural Resources and Environmental Geochemistry, August 14-16, 1998. Guiyang, China.
 - Pollack, H.N., and Huang, S., 1997. Climate reconstruction from subsurface temperatures: Global change since 1500. 1997 AGU Fall Meeting, December 8-12, 1997, San Francisco, EOS Transactions American Geophysical Union, Vol. 78, No. 46 (supp.), p.F31.
 - Huang, S., 1997. Aggregate global scale analysis of relationship between heat flow and heat production. 1997 Symposium for Young Chinese Scientists on Earth Sciences "Deep Processes and Continental Dynamics", August 25-28, 1997. Beijing.
 - Huang, S., Pollack, H. N., and Shen, P.-Y., 1996. Late Quaternary temperature changes seen in world-wide continental heat flow measurements, 1996 AGU Fall Meeting, December 15-19, 1996, San Francisco, EOS Transactions American Geophysical Union, Vol. 77, No. 46 (supp.), p.F46.

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- Huang, S. and Pollack, H.N., 1996. New insight from the global heat flow data compilation. 30th International Geological Congress, August 4-14, 1996, Beijing.
- Huang, S. and Pollack, H.N., 1996. Global Database of Borehole Temperatures and Climate Reconstructions, 4th International Workshop on Heat Flow and the Structure of the Lithosphere, June 9-15, 1996, Trest Castle, Czech Republic.
- Pollack, H.N., and Huang, S., 1996. In search of climate's footprint: Penetrating the camouflage. 4th International Workshop on Heat Flow and the Structure of the Lithosphere, June 9-15, 1996, Trest Castle, Czech Republic.
- Pollack, H.N., Huang, S., and Simon Torok, 1996. Recent climate history in Australia inferred from borehole temperatures, with comparisons to the meteorologic record. 4th International Workshop on Heat Flow and the Structure of the Lithosphere, June 9-15, 1996, Trest Castle, Czech Republic.
- Jones, M.Q.W, Huang, S. and Pollack, H.N., 1995. Ground surface temperature changes recorded in borehole temperatures in South Africa. 1995 AGU Fall Meeting, December 11-15, 1995, San Francisco, EOS Transactions American Geophysical Union, Vol. 76, No. 46 (supp.), p.191.
- Huang, S., Shen, P.Y., and Pollack, H.N., 1995. Deriving climate information from borehole temperatures with a few-parameter estimation technique, IUGG XXXI General Assembly, June 2-14, 1995, Boulder, Abstracts, A251.
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- Pollack, H.N., Shen, P.Y., and Huang, S., 1995. Inference of ground surface temperature history from borehole temperature data: Inversion of logs from multiple sites, IUGG XXXI General Assembly, June 2-14, 1995, Boulder, Abstracts, A251.
- Shen, P.Y., Pollack, H.N., and Huang, S., 1995. Inference of ground surface temperature history from borehole temperature data: A comparison of two inverse methods, IUGG XXXI General Assembly, June 2-14, 1995, Boulder, Abstracts, A251.
- Huang, S. and Pollack, H. N., 1994. Ground surface temperature histories inverted from subsurface temperatures of two boreholes located in Panxi, SW China, 1994 AGU Fall Meeting, December 1994, San Francisco, EOS Transactions American Geophysical Union, Vol. 75, No. 44 (supp.), p.153.
- Pollack, H.N., Huang, S., Shen, P.Y., and Wang, K., 1994. Effects of subsurface heterogeneity on the inference of climate change from borehole temperature data: Model studies and field examples from Canada, 1994 AGU Fall Meeting, December 1994, San Francisco, EOS Transactions American Geophysical Union, Vol. 75, No. 44 (supp.), p.130.
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- Huang, S. and Pollack, H. N., 1994. Some practical problems in reconstruction of a ground surface temperature history from borehole temperatures. International Workshop on Borehole Temperatures and Climate Change, June 20-25, 1994, Praha.
- Pollack, H.N., Huang, S., Decker, E.R., and Stepaniak, D.L., 1993. Surface temperature history in northeastern USA: reconstruction from borehole temperatures, 1993 AGU Spring Meeting, May 1993, Baltimore, EOS Transactions American Geophysical Union, Vol. 74, No. 16 (supp.), p.89.