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EDUCATION:

University of Toronto	Ph.D.	1982	Geography
University of Toronto	M.Sc.	1978	Geography
Chinese University of Hong Kong	B.S.Sc.	1974	Geography (with First Class Honor)

ACADEMIC POSITIONS HELD:

2006-present	Professor, Department of Oceanography and Coastal Sciences, Louisiana State University, and George William Barineau III Professor, School of the Coast and Environment, LSU
1997-06	James J. Parsons Professor of Geography, Dept. Geography & Anthropology, LSU
1995-97	Professor, Department of Geography & Anthropology, Louisiana State University
1989-95	Associate Professor, Dept. of Geography & Anthropology, Louisiana State University
1991	Visiting Senior Lecturer, Department of Geography and Geology, University of Hong Kong (Fall semester, Sabbatical leave from LSU)
1984-89	Assistant Professor, Dept. of Geography and Anthropology, Louisiana State University
1982-84	Post-doctoral Research Associate, Department of Zoology and Institute of Polar Studies, Ohio State University
1974-76	Tutor, Department of Geography, Chinese University of Hong Kong

RESEARCH INTERESTS

Thematic: Paleotempestology, Coastal paleoecology, Ice-core paleoclimatology, Global environmental change, Palynology and lake-sediments

Regional: U.S. Gulf coast and Atlantic coast, Caribbean region and Central America, South America (Andes and Amazon Basin), Tibetan Plateau, Central Asia (Mongolia and Kazakhstan), China, Africa

MAJOR NATIONAL SERVICE:

2002-04	Panel member, NSF Doctoral Dissertation Research Improvement (DDRI) Panel, Geography & Regional Science Program, National Science Foundation
1988-96	Member, U.S. National Committee for the International Union for Quaternary Research (<i>USNC/INQUA</i>)--appointed by the National Academy of Sciences for two consecutive 4-year terms.

PUBLICATIONS

A. Books

- Murnane, R. and Liu, K.B. (eds.), 2004. Hurricanes and Typhoons: Past, Present, and Future. Columbia University Press, New York, 462 pages.
- Ward, J. V. and Liu, K. B. (eds.), 1988. Quaternary Palynology of Tropical Areas, Special issue of Review of Palaeobotany and Palynology, Vol. 55, Nos. 1-3. Elsevier, Amsterdam, 271 pages.

B. Refereed Journal Articles and Book Chapters

(1) Articles published (total = 80)

- Liu, K.B., 2007. "Uncovering prehistoric hurricane activity", American Scientist 95: 126-133.
- Liu, K.B., 2007. "Paleotempestology". In: Elias, S. (ed.), Encyclopedia of Quaternary Science. Elsevier, Amsterdam, pp. 1978-1986.
- Liu, K.B., Reese, C.A., and Thompson, L.G., 2007. "A potential pollen proxy for ENSO derived from the Sajama ice core", Geophysical Research Letters 34, L09504, doi:10.1029/2006GL029018
- Kiage, L.M., Liu, K.B., Walker, N., Lam, N.S.N., Huh, O., 2007. "Recent land-cover/use change associated with land degradation in the Lake Baringo catchment, Kenya, East Africa: evidence from Landsat TM and ETM+", International Journal of Remote Sensing, 1-25, doi: 10.1080/01431160701241753
- Tornqvist, T.E., Paola, C., Parker, G., Liu, K.B., Mohrig, D., Holbrook, J.M., and Twilley, R.R., 2007, "Comment on 'Wetland Sedimentation from Hurricanes Katrina and Rita'", Science 316: 201. (Full text at www.sciencemag.org/cgi/content/full/316/5822/201b)
- Cheung, K.F., Tang, L.J., Donnelly, J.P., Scileppi, E.M., Liu, K.B., Mao, X.Z., Houston, S.H., and Murnane, R.J., 2007. "Numerical modeling and field evidence of coastal overwash in southern New England from Hurricane Bob and implications for paleotempestology", Journal of Geophysical Research 112, F03024, doi: 10.1029/2006JF000612
- Frappier, A., Knutson, T., Liu, K.B., and Emanuel, K., 2007. "Perspective: coordinating paleoclimate research on tropical cyclones with hurricane-climate theory and modelling", Tellus A, doi: 10.1111/j.1600-0870.2007.00250.x
- Brklacich, M., Brown, I.F., Campos, E.J.D., Krusche, A., Lavell, A., Liu, K.B., Jimenez-Osornio, J., Reyes-Knoche, S., Wood, C., 2007. "Stakeholders and global environmental change science", In: Tiessen, H., Brklacich, M., Breulmann, G., and Menezes, R.S.C. (eds.), Communicating Global Change Science to Society: An Assessment and Case Studies. Island Press, Washington, D.C., pp. 21-34.
- Lu, H.-Y., Wu, N.-Q., Liu, K.B., Jiang, H., and Liu, T.-S., 2007. "Phytoliths as quantitative indicators for the reconstruction of past environmental conditions in China II: palaeoenvironmental reconstruction in the Loess Plateau", Quaternary Science Reviews 26: 759-772.
- Feng, Z.D., Tang, L.Y., Ma, Y.Z., Zhai, Z.X., Wu, H.N., Li, F., Zou, S.B., Yang, Q.L., Wang, W.G., Derbyshire, E., and Liu, K.B., 2007. "Holocene vegetation variations and associated environmental changes during marine isotope stage 3 in the western part of the Chinese Loess Plateau", Palaeogeography, Palaeoclimatology, Palaeoecology 246: 278-291.
- Feng, Z.D., Zhai, X.W., Ma, Y.Z., Huang, C.Q., Wang, W.G., Zhang, H.C., Khosbayar, P., Narantsetseg, T., Liu, K.B., and Rutter, N.W., 2007. "Eolian environmental changes in the northern Mongolian Plateau during the past ~35,000 yr", Palaeogeography, Palaeoclimatology, Palaeoecology 245: 505-517.
- Kiage, L.M. and Liu, K.B., 2006. "Late Quaternary paleoenvironmental changes in East Africa: A review of multi-proxy evidence from palynology, lake sediments, and associated records", Progress in

Physical Geography 30: 633-658.

- Fogarty, E.A., Elsner, J.B., Jagger, T.H., Liu, K.B., and Louie, K.S., 2006. "Variations in typhoon landfalls over China", Advances in Atmospheric Sciences 23(5): 665-677.
- Morrill, C., Overpeck, J.T., Cole, J.E., Liu, K.B., Shen, C., and Tang, L., 2006. "Holocene variations in the Asian monsoon inferred from the geochemistry of lake sediments in central Tibet", Quaternary Research 65(2): 232-243.
- Shen, C., Liu, K.B., Tang, L., and Overpeck, J.T., 2006. "Quantitative relationships between modern pollen rain and climate in the Tibetan Plateau", Review of Palaeobotany and Palynology 140: 61-77.
- Feng, Z.D., Tang, L.Y., Wang, H.B., Ma, Y.Z., and Liu, K.B., 2006. "Holocene vegetation variations and associated environmental changes in the western part of the Chinese Loess Plateau", Palaeogeography, Palaeoclimatology, Palaeoecology 241: 440-456.
- Lu, H.-Y., Wu, N.-Q., Yang, X.-D., Jiang, H., Liu, K.B., Liu, T.-S., 2006. "Phytoliths as quantitative indicators for the reconstruction of past environmental conditions in China I: phytolith-based transfer functions", Quaternary Science Reviews 25: 945-959.
- Liu, K.B., Reese, C.A., and Thompson, L.G., 2005. "Ice-core pollen record of climatic changes in the central Andes during the last 400 years", Quaternary Research 64(2): 272-278.
- Lu, H.Y., Yang, X.Y., Ye, M.L., Liu, K.B., Xia, Z.K., Ren, X.Y., and Cai, L.H., Wu, N.Q., and Liu, T.S., 2005. "Millet noodles in Late Neolithic China", Nature 437: 967-968.
- Lu, H.Y. and Liu, K.B., 2005. "Phytolith indicators of coastal environmental changes and hurricane overwash deposition", The Holocene 15 (7): 965-972.
- Overpeck, J.T., Liu, K.B., Morrill, C. Cole, J., Shen, C., Anderson, D., and Tang, L., 2005. "Holocene environmental change in the Himalayan-Tibetan Plateau region: Lake sediments and the future". In: U.M. Huber, H.K.M. Bugmann, and M.A. Reasoner (eds.), Global Change and Mountain Regions: An Overview of Current Knowledge. Springer, Boston, pp. 83-92.
- Shen, C.M., Tang, L.Y., Wang, S.M., Li, C.H., and Liu, K.B., 2005. "Pollen records and time scale for the RM core of the Zoige Basin, northeastern Qinghai-Tibetan Plateau", Chinese Science Bulletin 50(6): 553-562.
- Reese, C.A. and Liu, K.B., 2005. "Interannual variability in pollen dispersal and deposition on the tropical Quelccaya Ice Cap", Professional Geographer 57(2): 185-197.
- Reese, C.A. and Liu, K.B., 2005. "A modern pollen rain study from the central Andes region of South America", Journal of Biogeography 32: 709-718.
- Liu, K.B., 2004. "Paleotempestology: Principles, methods, and examples from Gulf coast lake-sediments". In: Murnane, R. and Liu, K.B. (eds.): Hurricanes and Typhoons: Past, Present, and Future. Columbia University Press, New York, pp. 13-57.
- Louie, K.S. and Liu, K.B., 2004. "Ancient records of typhoons in Chinese historical documents". In Murnane, R. and Liu, K.B. (eds.): Hurricanes and Typhoons: Past, Present, and Future. Columbia University Press, New York, pp. 222-248.
- Murnane, R. and Liu, K.B., 2004. "Conclusion". In Murnane, R. and Liu, K.B. (eds.): Hurricanes and Typhoons: Past, Present, and Future. Columbia University Press, New York, pp. 441-446.
- Liu, K.B., 2004. "Paleotempestology: Geographic solutions to hurricane hazard assessment and risk prediction". In: D. Janelle, B. Warf, and K. Hansen (eds.), WorldMinds: Geographical Perspectives on 100 Problems. Kluwer Academic Publishers, Dordrecht, pp. 443-448.
- Elsner, J.B. and Liu, K.B., 2003. "Examining the ENSO-Typhoon hypothesis", Climate Research 25(1): 43-54.
- Reese, C.A., Liu, K.B., and Mountain, K.R., 2003. "Pollen dispersal and deposition on the ice cap of Volcan Parinacota, southwestern Bolivia", Arctic, Antarctic, and Alpine Research 35(4): 58-63.
- Liu, K.B., Lu, H.Y., and Shen, C.M., 2003. "Assessing the vulnerability of the Alabama Gulf coast to intense hurricane strikes and forest fires in the light of long-term climatic changes". In: Ning, Z.H.,

- Turner, R.E., Doyle, T., and Abdollahi, K. (eds), Integrated Assessment of the Climate Change Impacts on the Gulf Coast Region, Gulf Coast Regional Climate Change Council, Baton Rouge, pp. 223-230.
- Lu, H.Y. and Liu, K.B., 2003. "Phytoliths of common grasses in the coastal environments of southeastern USA". Estuarine, Coastal and Shelf Science 58(3): 587-600.
- Louie, K.S. and Liu, K.B., 2003. "Earliest historical records of typhoons in China". Journal of Historical Geography 29 (3): 299-316.
- Lu, H.Y. and Liu, K.B., 2003. "Morphological variations of lobate phytoliths from grasses in China and the south-eastern United States". Diversity and Distributions 9: 73-87.
- Lu, H.Y., Jia, J.W., Wang, W.M., Wang, Y.J., and Liu, K.B., 2002. "On the meaning of phytolith and its classification in Gramineae". Acta Micropalaeontologica Sinica 19: 389-396.
- Liu, K.B. and Fearn, M.L., 2002. "Lake sediment evidence of coastal geologic evolution and hurricane history from Western Lake, Florida: Reply to Otvos", Quaternary Research 57: 429-431.
- Liu, K.B., 2002. "Biogeography at LSU", in: Steinberg, M.K. and Hudson, P.F. (eds.), Cultural and Physical Expositions: Geographic Studies in the Southern United States and Latin America, *Geoscience and Man* 36, Geoscience Publications, Department of Geography and Anthropology, Louisiana State University, Baton Rouge, pp. 233-259
- Reese, C.A. and Liu, K.B., 2002. "Pollen dispersal and deposition on the Quelccaya Ice Cap", Physical Geography 23: 44-58.
- Maxwell, A. and Liu, K.B., 2002. "Late Quaternary pollen and associated records from the monsoonal areas of continental South and SE Asia", in: Kershaw, P., David, B., Tapper, N., Penny, D., and Brown, J. (eds.), Bridging Wallace's Line: The Environmental and Cultural History and Dynamics of the SE-Asian-Australian Region, *Advances in GeoEcology* 34, Catena Verlag, Reiskirchen, pp. 189-228.
- Liu, K.B., Shen, C., and Louie, K.S., 2001. "A 1000-year history of typhoon landfalls in Guangdong, southern China, reconstructed from Chinese historical documentary records", Annals of the Association of American Geographers 91: 453-464.
- Reese, C.A. and Liu, K.B., 2001. "Late-Holocene vegetation changes at Bluff Swamp, Louisiana", Southeastern Geographer 42(1): 20-35.
- (Note: This paper was selected by the Southeastern Section of the Association of American Geographers/SEDAAG to be the recipient of the "Paper of the Year Award" for 2001).
- Chen, X.D. and 22 others (including Liu, K.B.), 2001. "Simulation of China biome reconstruction based on pollen data from surface sediment samples". Acta Botanica Sinica 43 (2): 201-209.
- Liu, K.B. and Fearn, M.L., 2000. "Reconstruction of prehistoric landfall frequencies of catastrophic hurricanes in northwestern Florida from lake sediment records", Quaternary Research 54: 238-245.
- Liu, K.B. and Fearn, M.L., 2000. "Holocene history of catastrophic hurricane landfalls along the Gulf of Mexico coast reconstructed from coastal lake and marsh sediments", in: Ning, Z.H. and Abdollahi, K.K. (eds.), Current Stresses and Potential Vulnerabilities: Implications of Global Change for the Gulf Coast Region of the United States, Gulf Coast Regional Climate Change Council, Franklin Press, Baton Rouge, pp. 38-47.
- Elsner, J.B., Liu, K.B., and Kocher, B.L., 2000. "Spatial variations in major U.S. hurricane activity: Statistics and a physical mechanism", Journal of Climate 13: 2293-2305.
- Murnane, R.J., Barton, C., Collins, E., Donnelly, J., Elsner, J., Emanuel, K., Ginis, I., Howard, S., Landsea, C., Liu, K.B., Malmquist, D., McKay, M., Michaels, A., Nelson, N., O'Brien, J., Scott, D., Webb III, T., 2000. "Model estimates hurricane wind speed probabilities", EOS, Transactions of the American Geophysical Union 81(38), 433-438.
- Tang, L.Y., Shen, C.M., Liu, K.B., and Overpeck, J.T., 2000. "Changes in South Asian monsoon: New high-resolution paleoclimatic records from Tibet, China", Chinese Science Bulletin 45 (1): 87-90.
- Yu, G. and 30 others arranged alphabetically (including Liu, K.B.), 2000. "Paleovegetation of China: A pollen data-based synthesis for the mid-Holocene and last glacial maximum", Journal of Biogeography 27: 635-664.
- Members of China Quaternary Pollen Data Base (23 authors including Liu, K.B.), 2000. "Pollen-based

- biome reconstruction at Middle Holocene (6 ka BP) and Last Glacial Maximum (18 ka BP) in China", Acta Botanica Sinica 42:1201-1209 (in Chinese).
- Tang, L.Y., Shen, C.M., Liu, K.B., and Overpeck, J.T., 1999. "New high-resolution pollen records from two lakes in Xizang (Tibet)", Acta Botanica Sinica 41 (8): 896-902 (in Chinese).
- Tang, L.Y., Shen, C.M., Liu, K.B., and Overpeck, J.T., 1999. "Changes in the South Asian paleomonsoon: New high-resolution paleoclimatic records from Tibet", Kexue Tongbao 44 (18): 2004-2008 (in Chinese).
- Liu, K.B., Yao, Z., and Thompson, L.G., 1998. "A pollen record of Holocene climatic changes from the Dunde ice cap, Qinghai-Tibetan Plateau", Geology 26: 135-138.
- Kremenetski, C.V., Liu, K.B., and MacDonald, G.M., 1998. "The late Quaternary dynamics of pines in northern Asia", in: Richardson, D.M. (ed.), Ecology and Biogeography of Pinus, Chapter 4, Cambridge University Press, Cambridge, pp. 95-106.
- Tang, L.Y., Shen, C.M., Kong, Z.Z., Wang, F.B., and Liu, K.B., 1998. "Pollen evidence of climate during the Last Glacial Maximum in eastern Tibetan Plateau", Journal of Glaciology and Geocryology 20: 133-140 (in Chinese).
- McAndrews, J. H., Liu, K. B., Manville, G. C., Prest, V. K., and Vincent, J.-S., 1998. "Environmental change after 9000 B.C.," in W.G. Dean and G.J. Matthews (eds.), Concise Historical Atlas of Canada, Plate 1; University of Toronto Press, Toronto.
- Fearn, M.L. and Liu, K.B., 1997. "Identification of maize pollen: Reply to Eubanks", American Antiquity 62: 146-148.
- Colinvaux, P.A., Liu, K.B., De Oliveira, P., Bush, M.B., Miller, M.C., Piperno, D.R., and Steinitz-Kannan, M., 1996. "Temperature depression in the lowland tropics in glacial times," Climatic Change 32: 19-33.
- Lam, N.S.N. and Liu, K.B., 1996. "Generation of a national rural sampling frame for HIV/AIDS research using space-filling curves", Professional Geographer 48: 321-332.
- Lam, N.S.N., M. Fan, and Liu, K.B., 1996. "Spatial-temporal spread of the AIDS epidemic, 1982-1990: A correlogram analysis of four regions of the United States", Geographical Analysis 28(2): 93-107.
- Thompson, L.G., Moseley-Thompson, E., Davis, M.E., Lin, P-N., Henderson, K.A., Cole-Dai, J., Bolzan, J.F., Liu, K.B., 1995. "Late Glacial Stage and Holocene tropical ice core records from Huascarán, Peru", Science 269: 46-50.
- Fearn, M.L. and Liu, K.B., 1995. "Maize pollen of 3500 B.P. from southern Alabama", American Antiquity 60: 109-117.
- Liu, K.B. and Qiu, H.L., 1994. "Late-Holocene pollen records of vegetational changes in China: Climate or human disturbance"? Terrestrial, Atmospheric and Oceanic Sciences 5(3): 120-137.
- Lam, N. S. N. and Liu, K.B., 1994. "Spread of AIDS in rural America, 1982-1990," Journal of Acquired Immune Deficiency Syndromes 7: 485-490.
- Liu, K. B. and Fearn, M.L., 1993. "Lake sediment record of late Holocene hurricane activities from coastal Alabama," Geology 21: 793-796.
- Liu, K. B., Sun, S., and Jiang, X., 1992. "Environmental Change in the Yangtze River Delta since 12,000 yr B.P.," Quaternary Research 28: 32-45.
- Liu, K. B., 1992. "The Shifting Forest Ecotone in Postglacial Northern Ontario," in Janelle, D., (ed.), Geographical Snapshots of North America. Guilford Press, New York, pp. 204-207.
- Liu, K. B., 1990. "Holocene paleoecology of the boreal forest and Great Lakes-St. Lawrence forest in northern Ontario," Ecological Monographs 60(2):1 79-212.
- Chmura, G. and Liu, K. B., 1990. "Pollen in the Lower Mississippi River," Review of Palaeobotany and Palynology 64: 253-261.
- Bush, M. B., Colinvaux, P. A., Wiemann, M. C., Piperno, D. R., and Liu, K. B., 1990. "Late Pleistocene temperature depression and vegetation change in Ecuadorian Amazonia." Quaternary Research 34: 330-345.
- Thompson, L. G., Davis, M. E., Mosley-Thompson, E., and Liu, K. B., 1988. "Pre-Incan Agricultural Activity Recorded in Dust Layers in Two Tropical Ice Cores," Nature 336: 763-765.

- Liu, K. B., 1988. "Quaternary history of the temperate forests of China," Quaternary Science Reviews, 7: 1-20.
- Liu, K. B. and Colinvaux, P. A., 1988. "A 5200-year history of Amazon rain forest," Journal of Biogeography 15:231 -248.
- Ward, J. V. and Liu, K. B., 1988. "Introduction." Review of Palaeobotany and Palynology, 55:1-3.
- Colinvaux, P. A., Frost, M., Frost, I., Liu, K. B., and Steinitz-Kannan, M., 1988. "Three pollen diagrams of forest disturbance in the Western Amazon," Review of Palaeobotany and Palynology, 55:73-81.
- Colinvaux, P. A., Olson, K. N., and Liu, K. B., 1988. "Late-glacial and Holocene pollen diagrams from two endorheic lakes of the inter-Andean Plateau of Ecuador," Review of Palaeobotany and Palynology, 55:83-99.
- Colinvaux, P. A. and Liu, K. B., 1987. "The Late Quaternary climate of the Amazon Basin," in Berger, W. H. and Labeyrie, L. D. (ed.) Abrupt Climatic Change, pp. 113-122, D. Riedel, Dordrecht, Netherlands.
- McAndrews, J. H., Liu, K. B., Manville, G. C., Prest, V. K., and Vincent, J.-S., 1987. "The Environment after 9000 B.C.," in R.C. Harris, (ed.), Historical Atlas of Canada, Vol. 1, Plate 4; University of Toronto Press, Toronto.
- Liu, K. B. and Colinvaux, P. A., 1985. "Forest changes in the Amazon Basin in the last glacial maximum," Nature 318: 556-557.
- Colinvaux, P. A., Miller, M. C., Liu, K. B., Steinitz-Kannan, M., and Frost, I. G., 1985. "Discovery of permanent Amazon lakes and hydraulic disturbance in the upper Amazon Basin," Nature 313:42-45
- Liu, K. B. and Lam, N. S. N., 1985. "Paleovegetational reconstruction based on modern and fossil pollen data: An application of discriminant analysis," Annals of the Association of American Geographers 75:115-130.

(2) Articles submitted, accepted, or in press (total = 7)

- Elsner, J.B., Jagger, T.H., and Liu, K.B. (in press). "Comparison of hurricane return periods using historical and geological records", Journal of Applied Meteorology and Climatology.
- Liu, K.B., Lu, H.Y., and Shen, C.M. (in press). "A 1,200-year proxy record of hurricanes and fires from the Gulf of Mexico coast: Testing the hypothesis of hurricane-fire interactions", Quaternary Research.
- Liu, K.B., Shen, C., Tang, L., Yao, Z., and Overpeck, J.T. (in review). "Modern pollen rain in the Tibetan Plateau", Journal of Biogeography.
- Ma, Y.Z., Liu, K.B., Feng, Z.D., Sang, Y.L., Wang, W., and Sun, A.Z. (in review). "A survey of modern pollen and vegetation along a north-south transect in Mongolia", Journal of Biogeography.
- Rohli, R.V. and Liu, K.B. (in review). "Prestige of Research in Geography Journals and Journals in Cognate Fields", Applied Geography.
- Shen, C., Liu, K.B., Morrill, C., Overpeck, J.T., Peng, J., and Tang, L. (in press). "Meadow-steppe ecotone shift and major centennial-scale droughts during the mid-late Holocene in the central Tibetan Plateau", Ecology.
- Shen, C., Liu, K.B., Tang, L., and Overpeck, J.T. (in press). "Numerical analyses of modern and fossil pollen data from the Tibetan Plateau", Annals of the Association of American Geographers.

C. Other Articles (total = 18)

- Liu, K.B., 2003. "Documentary records of typhoon landfalls in China during the past 1,000 years: Historical climatology and societal implications," pp. 43-57, in Tsukahara, T. and Mikami, T. (eds.), Encounter Between Meteorology and History of Science. Kobe University, Kobe, Japan (in Japanese, with English abstract).
- Liu, K.B., 1999. "Millennial-scale variability in catastrophic hurricane landfalls along the Gulf of Mexico coast", Preprint Volume of the 23rd Conference on Hurricanes and Tropical Meteorology, 10-15 January, 1999, Dallas, American Meteorological Society, Boston, pp. 374-377.

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- Liu, K.B. and Fearn, M.L., 1997. "Lake sediment records of hurricane Opal and prehistoric hurricanes from the Florida Panhandle", Preprint Volume of the 22nd Conference on Hurricanes and Tropical Meteorology, 19-23 May, 1997, Fort Collins, Colorado, American Meteorological Society, Boston, MA, pp. 397-398.
- Liu, K.B., 1995. "Pollen analysis of soil samples from the Rock Levee site", in Weinstein, R.A., Fuller, R.S., Scott, S.L., Scarry, C.M., and Duay, S.T., The Rock Levee site: Late Marksville through Late Mississippi period settlement, Bolivar County, Mississippi. The Beulah Levee Project: Archaeology and History, Vol. III, Contract Report submitted to the U.S. Army Corps of Engineers, by Coastal Environments, Inc., Baton Rouge, pp. 349-350.
- Hunter, D.G., Fritz, G.J., Autin, W.J., and Liu, K.B., 1994. Manifest East: Cultural Resources Investigations along portions of Louisiana Highway 8, Catahoula Parish, Louisiana, Report submitted to the Louisiana Department of Transportation and Development, Coastal Environments Inc., Baton Rouge, 390 p.
- Liu, K.B., 1994. "Pollen analysis of archaeological soil samples from the Possum Bluff and Kendrick's Hill sites, Jackson County, Texas," in Weinstein, R.A., Archaeological Investigations along the Lower Lavaca River, Jackson County, Texas: The Channel to Red Bluff Project, Coastal Environments Inc., Baton Rouge, pp. 343-344.
- Liu, K.B., 1994. "Pollen analysis of archaeological soil samples from Site 16 LF 250, Lafourche Parish, Louisiana", in Weinstein, R.A., Cultural Resources Investigations related to the West Belle Pass Headland Restoration Project, Lafourche Parish, Louisiana, Coastal Environments Inc., Baton Rouge, pp. 145-146.
- Fan, M., Lam, N.S.N., and Liu, K.B., 1993. "Using GIS to model the spatial spread of the AIDS epidemic in the United States," American Congress on Surveying and Mapping (ACSM) Technical Papers, 1993 Annual Convention and Exposition, New Orleans, pp. 186-195.
- Liu, K.B., 1992. "Pollen analysis of soil samples from archaeological sites along the Victoria Barge Canal," in Weinstein, R.A., Archaeology and Paleogeography of the Lower Guadalupe River/San Antonio Bay Region. Contract Report for the U.S. Army Corps of Engineers, Coastal Environments Inc., Baton Rouge, pp. 429-430.
- Liu, K.B., 1991. "Quaternary vegetational history of the monsoonal regions of China," Special Proceedings for Symposia of the XIII INQUA Congress, Beijing, China. pp. 111-113.
- Colinvaux, P. A., Liu, K. B., and Frost, I., 1986. "Palynological and paleolimnological evidence for late-Quaternary climate changes in the Western Amazon Basin," in Berger, W. H. and Labeyrie, L. D. (eds.) The Book of Abstracts and reports from the conference on: Abrupt Climatic Change. pp. 74-80. 510 Reference 86-8, Scripps Institution of Oceanography.
- Liu, K.B., 1985. "Pollen analysis of mud samples associated with human remains: A preliminary report," in Owsley, D. W., Orser, C. E. Jr., Montgomery, R., and Holland C., An Archaeological and physical anthropological study of the first cemetery in New Orleans, Louisiana. pp. 215-220.
- Liu, K.B. and Lam, N.S.N., 1985. "Discriminant analysis of Late Quaternary pollen stratigraphies from Ontario," Modeling and Simulation 16:155-159.
- Lam, N.S. and Liu, K.B., 1984. "A geographic information system for the Palynologists: An Ontario example," Modeling and Simulation 15:93-97.
- Lai, K.W., Liu, K.B., Yeung, K.C., Leung, C.F., Wai, C.C., 1982. "A Preliminary study on the Geological structure of Ma Shi Chau, Hong Kong," The Geographical Bulletin 16:69-90 (in Chinese, with English abstract).
- Liu, K.B., 1981. "Pollen evidence of late-Quaternary climatic changes in Canada: a review. Part II. Eastern Canada," Ontario Geography 17:61-82.
- Liu, K.B., 1980. "Pollen evidence of late-Quaternary climatic changes in Canada: a review. Part I. Western

Canada," Ontario Geography 15:83-101.

D. Book Reviews and Commentaries

Liu, K.B., 1994. "Reply: Lake-sediment record of late Holocene hurricane activities from coastal Alabama", Geology 22(3): 285.

Liu, K.B., 1991. "Commentary: People and Environment in the Zhu Jiang Delta," National Geographic Research and Exploration 7(1): 121.

Liu, K.B., 1986. "Book review: Biological Diversification in the Tropics." Professional Geographer 38: 450-451.

GRANTS AND AWARDS (Liu as PI or co-PI) (total awards = 45 (23 from NSF); total amount = \$3 million, counting my LSU portion only)

- 2006-11 **Inter-American Institute for Global Change Research (IAI)**, Collaborative Research Network grant (CRN II 050) (\$698,300). "Paleotempestology of the Caribbean region: A multi-proxy, multi-site study of the spatial and temporal variability of Caribbean hurricane activity". This is a 5-year collaborative research project involving 12 co-PIs from four different countries in the Americas (PI: Kam-biu Liu).
- 2006-07 **LSU Faculty Research Grant** (\$10,000). "Climate change, sea level rise, and hurricanes/typhoons in two of the world's largest river systems: developing comparative ecological study of the Yangtze and Mississippi River deltas". (PI: Kam-biu Liu; co-PI: W.J. Platt) .
- 2006-08 **National Science Foundation (NSF)**, research grant (\$139,991), Geography & Regional Science Program, BCS-0623514. "Collaborative Research: Bioclimatic reconstruction of the past 50,000 years from eolian sequences in westerlies-dominated Central Asia ". (PI: Kam-biu Liu; collaborative PI: Z.D. Feng, Montclair State Univ., total award for LSU and MSU: \$289,897).
- 2006-08 **National Science Foundation (NSF)**, Doctoral dissertation research improvement (DDRI) grant (\$11,940), Geography and Regional Science Program, BCS-0623287. "Tracking Donna across the northern Caribbean: Developing a modern analog methodology for paleotempestology" (PI: Kam-biu Liu; co-PI: Jason Knowles, Ph.D. student)
- 2006-07 **National Science Foundation (NSF)**, SGER grant (\$32,658), Division of Environmental Biology (DEB-0612477). "Do hurricanes spur responses of coastal communities to changing sea level?" (PI: William J. Platt; co-PIs: Kam-biu Liu, Julie Whitbeck, University of New Orleans; Loretta Battaglia, Southern Illinois University; total award for LSU, UNO, and SIU: \$50,000).
- 2006-08 **National Science Foundation (NSF)**, Doctoral dissertation research improvement (DDRI) grant (\$11,760), Geography and Regional Science Program, BCS-0602554. "Proxy records of paleohurricane activities for the western and southern Caribbean" (PI: Kam-biu Liu; co-PI: Terrence McCloskey, Ph.D. student).
- 2006-09 **National Science Foundation (NSF)**, research grant (\$132,251), Human and Social Dynamics (HSD)-Agents of Change Program, HSD-0527620. "Paleoclimatic change, landscape evolution, and cultural transformations in far western Tibet". (lead PI: Mark S. Aldenderfer; co-PIs: Jonathan Overpeck, Julie Cole, Jon Pelletier: University of Arizona; Kam-biu Liu, LSU; total award for UA and LSU: \$725,789).
- 2005-07 **National Science Foundation (NSF)**, research grant (\$92,292), Geography & Regional Science Program, BCS-0452399. "Collaborative Research: An integrative study of vulnerability and cultural response to hurricane hazards among indigenous populations on the Miskito coast of Honduras and Nicaragua ". (PI: Kam-biu Liu; collaborative PIs: Andy Reese and David Cochran, University of Southern Mississippi; total award for LSU and USM: \$199,868)

- 2005-07 **National Science Foundation (NSF)**, Doctoral dissertation research improvement (DDRI) grant (\$11,925), Geography and Regional Science Program, BCS-0503334. "Vegetation change and land degradation in the Lake Baringo ecosystem, Kenya, East Africa: Evidence from the paleorecord " (PI: Kam-biu Liu; co-PI: Lawrence Kiage, Ph.D. student).
- 2005-07 **Bermuda Biological Station for Research (BBSR), Risk Prediction Initiative (RPI)** research grant (\$40,000), "Hurricane Ivan as modern analog to prehistoric hurricane strikes". (PI: Kam-biu Liu).
- 2005-06 **National Geographic Society (NGS)** research grant (\$9,940). "Documenting Hurricane Katrina's overwash for use as a modern analog for hurricane reconstructions on the Gulf Coast." (PI: Andy Reese, University of Southern Mississippi; co-PI: Kam-biu Liu, LSU).
- 2004-07 **National Science Foundation (NSF)**, research grant (\$125,081), Earth System History Program, ATM-0402475. "Collaborative Research: Holocene Climatic Changes in the Mongolian Plateau". (PI: Kam-biu Liu; collaborative PIs: Zhaodong Feng, Monclair State University; Alexander Prokopenko, University of South Carolina; total award for LSU, MSU, & USC: \$370,641)
- 2002-06 **National Science Foundation (NSF)**, research grant (\$167,730), co-funded by the Geography & Regional Science Program and the Climate Dynamics Program, BCS-0213884. "Collaborative Research: The role of the North Atlantic Oscillation (NAO) in modulating major hurricane activity in the U.S.: Interannual to millennial timescales". (PI: Kam-biu Liu; collaborative PI: James Elsner, Florida State University; total award for LSU & FSU: \$299,921)
- 2002-03 **Bermuda Biological Station for Research (BBSR), Risk Prediction Initiative (RPI)** research grant (\$35,000), "New estimates of landfall probabilities for catastrophic hurricanes along the U.S. Gulf coast". (P.I.) (Duration: 12 months, October 1, 2002-September 30, 2003).
- 2002-03 **National Science Foundation (NSF)** Doctoral dissertation improvement supplement grant (\$4,000), Geography and Regional Science Program, BCS-0217321. "Pollen dispersal and deposition on tropical Andean ice caps: Quelccaya, Peru, and Nevada Sajama, Bolivia". (with Carl A. Reese, Ph.D. student) (8 months, May - December 2002)
- 2001-02 **National Science Foundation (NSF)** Doctoral dissertation improvement grant (\$9,905), Geography and Regional Science Program and Americas Program, BCS-0117338. "Pollen dispersal and deposition on tropical Andean ice caps: Quelccaya, Peru, and Nevada Sajama, Bolivia". (with Carl A. Reese, Ph.D. student) (18 months, July 2001 - December 2002)
- 2001-02 **U.S. Environmental Protection Agency (EPA)**, research grant, Subcontract through Southern University (\$15,000), "Vulnerability of the Alabama Gulf Coast to intense hurricane strikes and forest fires in the light of long-term climatic changes". (P.I.) (March - July, 2001)
- 2001-02 **National Park Service (NPS)** research contract (\$2,500), "Pollen analysis of soil samples from the Melrose flower garden, Natchez National Historic Park, Mississippi". (P.I.) (Duration: 12 months, June 2001 - June 2002).
- 2000-02 **National Science Foundation (NSF)**, research grant (\$104,049), co-funded by Earth System History Program and the Office of Polar Programs, ATM-0081941. "Collaborative Research: Century-scale variability in the Asian Southwest monsoon". (co-PI) (Duration: 2 year, September 2000 - August 2002) (Lead-PIs: Jonathan Overpeck and Julia Cole, University of Arizona, PI: Kam-biu Liu; total award for LSU & UA: \$223,451)
- 2000-01 **National Science Foundation (NSF)** doctoral dissertation improvement grant (\$9,850), Geography and Regional Science Program, BCS-0002346. "Holocene history of Atlantic tropical forest and cerrado in southeastern Brazil". (with Andre Tabanez, Ph.D. student) (12 months, July 2000 - June 2001)
- 2000-01 **National Science Foundation (NSF)**, Research Experience for Undergraduate (REU) Supplement grant (\$4,690), funded by Geography and Regional Science Program, "Modern pollen-vegetation relationships in the Bolivian Altiplano: Key to deciphering the pollen record from ice cores". (P.I.) (Duration: 1 year, July 1, 2000-June 30, 2001)

- 2000-01 **Bermuda Biological Station for Research (BBSR), Risk Prediction Initiative (RPI)** research grant (\$30,000), "Lake-sediment records of intense hurricane landfalls from Cumberland Island, Georgia". (P.I.) (Duration: 12 months, October 1, 2000-September 30, 2001).
- 1999-01 **National Science Foundation (NSF)** research grant (\$70,466), co-funded by Geography and Regional Science and Paleoclimate Programs, BCS-9906002. "Paleoenvironmental changes in the Bolivian Altiplano: A high-resolution pollen record from the Sajama Ice Cap". (P.I.) (Duration: 2 years, September 1, 1999-August 31, 2001)
- 1999-01 **National Science Foundation (NSF)** research grant (\$39,937), Earth System History Program, ATM-9905329. "Reconstructing a 1,000-year record of typhoon landfalls from Chinese historical documentary evidence". (P.I.) (Duration: 16 months, October 1, 1999-January 31, 2001)
- 1999-00 **Bermuda Biological Station for Research (BBSR), Risk Prediction Initiative (RPI)** research grant (\$70,000), "Reconstructing the hurricane landfall probabilities of the northern Atlantic coast: Lake sediment records from Cape Cod, Massachusetts". (P.I.) (Duration: 12 months, July 1, 1999-June 30, 2000).
- 1998-99 **Bermuda Biological Station for Research (BBSR), Risk Prediction Initiative (RPI)** research grant (\$75,000), "Reconstructing the landfall probabilities of catastrophic hurricanes from lake-sediment records along the mid-Atlantic coast". (P.I.) (Duration: 12 months, July 1, 1998-June 30, 1999).
- 1997-98 **Bermuda Biological Station for Research (BBSR), Risk Prediction Initiative (RPI)** research grant (\$70,000), "Reconstructing the recurrence intervals of catastrophic hurricanes: Lake and marsh sedimentary records from the Gulf Coast". (P.I.) (Duration: 13 months, June 1, 1997-June 30, 1998).
- 1996-97 **Bermuda Biological Station for Research (BBSR), Risk Prediction Initiative (RPI)** research grant (\$70,000), "Reconstructing the recurrence intervals of catastrophic hurricanes: Lake and marsh sedimentary records from the Gulf Coast". (P.I.) (Duration: 13 months, June 1, 1996-June 30, 1997).
- 1996-97 **Bermuda Biological Station for Research (BBSR), Risk Prediction Initiative (RPI)** research grant (\$4,200), "Reconstructing a 1,000-year record of typhoon activities from Chinese historical documentary evidence: A pilot study for Guangdong Province". (P.I.) (Duration: 13 months, June 1, 1996-June 30, 1997)
- 1995-96 **National Science Foundation (NSF)** doctoral dissertation improvement grant (\$9,970), Geography and Regional Science Program, SBR-9506344. "Paleo-environmental change in mainland Southeast Asia: Palynological evidence from Cambodia". (with Andrew Maxwell, Ph.D. student) (18 months, 7/95-12/96)
- 1995 **National Oceanic and Atmospheric Administration (NOAA)** research grant (\$17,466), Climate and Global Change Program. "Workshop: Towards establishing a Quaternary pollen database in China". (P.I.) (Duration: 9 months, March 1995-December 1995)
- 1995 East Baton Rouge Parish Recreation and Park Commission (BREC), research contract (\$700). "Lead-210 dating of sediment cores from the Bluebonnet Swamp". (P.I.) (Duration: 5 months, January 1995-May 1995)
- 1994-95 **U.S. Department of Health and Human Services (DHSS)** research grant, Subcontract through RAND (\$50,701), "Development of rural clusters for AIDS patient sampling". (co-PIs: Nina Lam & Kam-biu Liu) (Duration: 9 months, October 1994-June 1995)
- 1994-97 **National Science Foundation (NSF)** research grant (\$230,570), Climate Dynamics Program, ATM-9410491. "Long-term dynamics of the SW Indian monsoon: New high-resolution paleoclimatic data from Tibet". (P.I.) (Duration: 3 years, June 1994-June 1997)
- 1994-96 **National Science Foundation (NSF)** research grant (\$40,890), Geography and Regional Science Program, SBR-9410411. "A high-resolution pollen record from the Dundee Ice Cap,

- western China". (P.I.) (Duration: 2 years, July 1994-July 1996)
- 1994-95 East Baton Rouge Parish Recreation and Park Commission (BREC), research contract (\$750). "Diatom analysis of sediment cores from the Bluebonnet Swamp". (P.I.) (Duration: 1 year, March 1994-February 1995)
- 1992-93 **National Science Foundation (NSF)** research grant (\$97,879), Geography and Regional Science Program, SES-9122058. "Reconstructing the Late-Holocene hurricane climate of the northern Gulf of Mexico coast." (P.I.) (Duration: 1 year, June 1992-June 1993)
- 1991-92 **National Science Foundation (NSF)**, Doctoral Dissertation Improvement Grant (\$5,980), Geography and Regional Science Program, SES-9105493. "Louisiana's Cajun prairie: Holocene history of a subtropical grassland." (P.I.; with Miriam Fearn, Ph.D. student) (Duration: 1 year, July 1991-July 1992)
- 1990-92 **Louisiana Education Quality Support Fund (LEQSF-8g)** (\$83,219). "Modeling the Spatial dynamics of AIDS in the United States: A geographic information systems approach." (Co-P.I., with Nina Lam) (Duration: 2 years, June 1990-June 1992)
- 1990 U. S. National Committee for the International Geographical Union (USNC/IGU) travel grant (\$1,500) for attending the Asian Pacific Regional Conference of the International Geographical Union in Beijing, China.
- 1990-91 **National Science Foundation (NSF)** research grant (\$13,485), co-funded by the Geography and Regional Science Program and Climate Dynamics Program, SES-8922033. "Lake sediment and pollen records of hurricane disturbance along the Alabama Gulf Coast." (P.I.) (Duration: 1 year, January 1990-January 1991)
- 1990-91 **National Science Foundation (NSF)**, Doctoral Dissertation Improvement Grant (\$9,290), Geography and Regional Science Program, SES-9001343. "Late-Quaternary vegetation and monsoon climate history of Southeast China," (P.I.; with Hong-lie Qiu, Ph.D. student) (Duration: 1 year, May 1990-May 1991)
- 1988 U.S. National Committee for the International Geographical Union (USNC/IGU) travel grant (\$1,000) for attending the International Geographical Congress in Sydney, Australia.
- 1986-87 **National Geographic Society (NGS)** research grant #3369-86 (\$23,900). "Environmental Change in East China during the last 30,000 years." (P.I.) (Duration: 18 months, June 1986-December 1987)
- 1985 L.S.U. Summer Faculty Research Grant (\$4,000), "Quaternary climate and vegetational history of China: Palynological studies." (P.I.)
- 1984 **Association of American Geographers (AAG)** Research Grant (\$500), "The Quaternary environment of China: An evaluation of the pollen evidence." (P.I.)
- 1983 Warren Nystrom Award, Association of American Geographers (\$150) (To honor the best paper presented in a special session of the AAG meeting that is based on a recently completed dissertation in Geography).

PROFESSIONAL SERVICE AND RECOGNITION

A. External Reviewer/Visiting Examiner of Academic Programs

- 2005 Program reviewer, Department of Geosciences, University of Massachusetts-Amherst
- 1998-01 Visiting Examiner (appointed for three-year term, 1998-2001), Department of Geography, The Chinese University of Hong Kong

B. External Examiner of Theses and Dissertations

- 2005 Department of Geography, University of Toronto (Ph.D. dissertation)
- 2004 Department of Geography, McGill University (M.Sc. thesis)

C. Reviewer of Journal Articles (5-12 times per year)

Ambio
 Annals of Glaciology
 Annals of the Association of American Geographers
 Climatic Change
 Earth and Planetary Science Letters
 EOS
 Geographical Analysis
 Geoarchaeology
 Geology
 Geophysical Research Letters
 Global and Planetary Change
 Global Ecology and Biogeography
 Historical Geography
 Journal of Biogeography
 Journal of Geophysical Research
 Journal of Glaciology
 Journal of Quaternary Science
 Marine Geology
 Marine Micropaleontology
 National Geographic Research
 Nature
 Palaeogeography, Palaeoclimatology, Palaeoecology
 Palynology
 Pedosphere
 Plant Ecology
 Proceedings of the National Academy of Sciences, U.S.A.
 Professional Geographer
 Quaternary Research
 Quaternary Science Reviews
 Review of Palaeobotany and Palynology
 Revista de Biología Tropical
 Southeastern Geographer
 Terrestrial, Atmospheric and Oceanic Sciences
 Texas Journal of Science
 The Holocene
 Transactions of the Gulf Coast Association of Geological Societies
 Vegetation History and Archaeobotany

D. External Reviewer of Grant Proposals

National Science Foundation (NSF):
 Earth System History Program
 Paleoclimatology/Climate Dynamics Program
 Geography & Regional Science Program
 Marine Geology and Geophysics Program
 Anthropology Program
 Geology and Paleontology Program

Ecology Program
 Women Visiting Scientists Program
 Polar Glaciology Program
 NOAA Climate and Global Change Program
 National Geographic Society
 American Philosophical Society
 Natural Environment Research Council (NERC), United Kingdom
 National Science Council, Taiwan
 Hong Kong Research Grants Council (HKRGC), Hong Kong
 Chinese National Natural Science Foundation (NSFC)

E. External Reviewer of Textbooks for Publishing Companies

Wadsworth Publishing Co.
 John Wiley & Sons, Inc.
 Brooks/Cole Publishing Co.

F. Editorships

2001- Editorial Board member, *Journal of Geographical Sciences*
 1995-97 Editorial Board member, *Chinese Environment and Development* (Publisher: Sharpe)
 1988-93 Editor-in-chief, *Geoscience and Man*, Department of Geography & Anthropology, LSU
 1975-76 Editor-in-chief, *Teaching Through Learning Magazine* (Bimonthly), Hong Kong
 1972-73 Editor-in-chief, *CU Student* (Monthly student newspaper, Chinese University of Hong Kong)
 1971-72 Editor-in-chief, *Chung Chi Student* (Monthly student newspaper, Chung Chi College, The Chinese University of Hong Kong)

G. Organizer and Chair of Meetings and Symposia

2007 Organizer and Chair, 4 special sessions on "Hurricanes I, II, III", 103rd Annual meeting of the Association of American Geographers, San Francisco.
 2006 Organizer and Chair, 4 special sessions on "Hurricanes I, II, III", 102nd Annual meeting of the Association of American Geographers, Chicago, IL.
 2005 Organizer and Chair, 3 special sessions on "Hurricanes I, II, III", 101st Annual meeting of the Association of American Geographers, Philadelphia, PA
 2004 Organizer and Chair, 3 special sessions on "Hurricanes I, II, III", 100th Annual meeting of the Association of American Geographers, Philadelphia, PA
 2003 Organizer and Chair, 3 special sessions on "Hurricanes I, II, III", 99th Annual meeting of the Association of American Geographers, New Orleans, LA
 2002 Organizer and Chair, Special sessions on "Hurricanes I: Paleotempestology and Biophysical Processes", "Hurricane II: Climatology and Societal Impacts", 98th Annual meeting of the Association of American Geographers, Los Angeles, CA
 2001 Organizer and Chair, Special sessions on "Hurricanes I: Climatology and Biogeography", "Hurricane II: Paleotempestology and Historical Records", "Hurricanes III: Societal Impacts and Response", 97th Annual meeting of the Association of American Geographers, New York City, NY
 2000 Organizer and Chair, Symposia on "Frontiers in Hurricane Climate Research", 2000-AAAS Annual Meeting, American Association for the Advancement of Science, Washington D.C.
 1999 Organizer and Chair, Special sessions on "Hurricanes I: Climatology and Temporal Trends",

- "Hurricanes II: Societal Impacts and Proxy Records", 95th Annual meeting of the Association of American Geographers, Honolulu, Hawaii
- 1998 Organizer and Chair, Special sessions on "Hurricanes I: Hurricane Climatology and Historical Records", "Hurricanes II: Reconstruction of Past Hurricanes", 94th Annual meeting of the Association of American Geographers, Boston, Massachusetts
- 1997 Organizer and Chair, Special sessions on "Ecological and geomorphic impacts of hurricanes, I & II", 93rd Annual meeting of the Association of American Geographers, Fort Worth, Texas
- 1995 Co-Convenor, International Workshop on "Towards establishing a Quaternary pollen database for China", Beijing, China
- 1993 Convenor and Chair, Symposium on "Palynology and Climate", American Association of Stratigraphic Palynologists (AASP), Baton Rouge, Louisiana
- 1992 Convenor and Chair, Special Session on "Current Geographic Research on the AIDS pandemic", 27th International Geographical Congress (IGC), Washington, D.C.
- 1991 Convenor and Chair, Symposium on "Quaternary vegetational history of the monsoonal regions of China", 13th INQUA Congress, Beijing, China

H. Invited and Sponsored Speaker

- 2007 First International Summit on *Hurricanes and Climate Change*, Crete, Greece, May 26 - June 1, 2007.
- 2007 Department of Earth and Environmental Sciences, Tulane University, March 9, 2007.
- 2007 United Nations Framework Convention on Climate Change (UNFCCC) expert meeting on *Adaptation for Small Island Developing States (SIDS)*, sponsored by The Inter-American Institute for Global Change Research; Kingston, Jamaica, February 4-8, 2007.
- 2006 Earth System Science Partnership (ESSP) Global Environmental Change (GEC) Open Science Meeting, sponsored by The Inter-American Institute for Global Change Research, Beijing, November 7-13, 2006.
- 2006 GCAGS/ GCSSEPM/ IGCP-490 convention, Keynote speaker, Lafayette, Louisiana, September 26, 2006.
- 2006 IAI CRN II Initial PI & AIR meeting, sponsored by The Inter-American Institute for Global Change Research, Buenos Aires, Argentina, May 4-5, 2006.
- 2006 *Tropical Cyclone and Climate Workshop*, sponsored by the International Research Institute for Climate and Society (IRI), Lamont-Doherty Earth Observatory, Columbia University, New York, March 27-29, 2006.
- 2006 Department of Biological Sciences, Florida Institute of Technology, sponsored by the Florida Sea Grant Program, February 23, 2006.
- 2005 Joint workshop of the *Inter-American Institute (IAI)* and *SCOPE* Rapid Assessment Process (RAP), "Linking the Sciences of Environmental Change to Society and Policy", Ubatuba, Brazil, November 25 to December 1, 2005.
- 2005 *U.S. Climate Change Program (CCSP) Workshop: Climate Science in Support of Decision Making*, Washington, DC, November 14-16, 2005.
- 2005 Sigma Xi, LSU Chapter (luncheon speaker), Baton Rouge, October 9 2005.
- 2005 *10th Americas Conference on Wind Engineering* (banquet speaker), Baton Rouge, June 2, 2005
- 2005 Department of Geography, University of Minnesota, "Global Change and Changing Landscapes" speaker series, February 16-18, 2005
- 2004 IAI Paleohurricane workshop, Woods Hole Oceanographic Institution, Woods Hole, Massachusetts, October 7-8, 2004
- 2004 Department of Geological Sciences, University of South Carolina, February 16, 2004
- 2003 *2003 PCS Catastrophe Conference* (keynote speaker), Orlando, May 4-7, 2003
- 2003 *International Symposium for the East Asian Network for Environmental History and Climate*

- Change*, Kobe, Japan, January 12, 2003
- 2002 *Conference on the Hadley Circulation: Present, Past, and Future*, Honolulu, Hawaii, November 12-15, 2002
- 2002 International workshop on “*Historical Climate Reconstruction over East Asia*”, Beijing, China, October 14-16, 2002
- 2002 Department of Geosciences, Princeton University
- 2002 *International Conference on Environmental Catastrophes and Recovery in the Holocene*, Brunel University, London, U.K., August 28--Sept 2, 2002
- 2001 Center for Climatic Research, University of Wisconsin-Madison
- 2001 *Symposium on Asian Monsoons and Global Linkages on Milankovitch and Sub-Milankovitch Timescales*, Beijing, China, May 9-11
- 2001 Institute of Geography, Chinese Academy of Sciences, Beijing
- 2001 Institute of Geology, Chinese National Academy of Sciences, Beijing
- 2001 Co-organizer and invited speaker, NSF/NOAA Workshop on “Atlantic Basin Paleohurricane Reconstructions from High-resolution Records”, Columbia, South Carolina, March 24-27.
- 2001 NSF Workshop on “Paleoclimatology of the Central Andes”, Tucson, Arizona, January 11-15, 2001
- 2000 Department of Geography, The Chinese University of Hong Kong
- 2000 *PCS Catastrophe Conference* (featured speaker), Scottsdale, Arizona
- 1999 International workshop on “Climate Variability Reconstructed from Historical Evidence and Other Proxy Records”, Manzanillo, Mexico
- 1999 “Global Pollen Database” workshop, funded by NOAA, Boulder, Colorado
- 1999 Department of Geosciences, University of Nebraska, Lincoln
- 1998 PAGES (Past Global Changes) Workshop on “Calibration of Historical Data for Reconstruction of Climatic Variations”, Barcelona, Spain, July 6-8, 1998.
- 1997 BIOME 6000 Workshop: "Late Quaternary Paleoenvironments of Pacific Asia", Sweden, September 1-5.
- 1997 Risk Prediction Initiative "Windspeed Probabilities" Workshop, Bermuda Biological Station for Research, Bermuda, July 14-15.
- 1997 Risk and Insurance Management Society (RIMS) annual meeting, Atlanta, April 14-17.
- 1996 Department of Earth, Atmospheric and Planetary Sciences, Massachusetts Institute of Technology (MIT)
- 1996 Risk Prediction Initiative "Climate Variability and Tropical Cyclone Prediction" Workshop, Bermuda Biological Station for Research, Bermuda
- 1996 Department of Geological Sciences, Ohio State University
- 1994 Department of Geography, UCLA
- 1994 IGBP-PAGES workshop "Multiproxy Paleoenvironmental Mapping Project", funded by IGBP-PAGES, San Francisco, December 3-5.
- 1994 IGBP-PAGES workshop "Towards a Global Paleovegetational Dataset", funded by NOAA and IGBP, Sweden, May 9-13.
- 1993 IGBP-PAGES (Past Global Change) Workshop on "High Resolution Records of Climate in Monsoon Asia: The Last 2000 Years and Beyond," funded by NSF (U.S.) and National Research Council (Taiwan), Taipei, Taiwan, April 21-23.
- 1992 13th International CODATA Conference, funded by World Data Center, Panel on Paleoclimate Data, Beijing, China, October 19-22.
- 1992 Dept. of Geography, Texas A & M University
- 1992 NOAA Paleoclimate Program, Boulder, Colorado
- 1990 Department of Geography, Texas A & M University
- 1990 Department of Geography, University of Iowa
- 1989 Department of Geography, University of Tennessee

- 1985 Nanjing Institute of Geography, Academia Sinica, People's Republic of China
 1985 NSF/NATO Workshop on “Abrupt Climatic Change”, Biviers, France

I. Appointed or Elected Office in Professional Organizations

- 2002-04 Member of Doctoral Dissertation Research Improvement (DDRI) Panel (appointed), Geography & Regional Science Program, National Science Foundation (NSF)
 1995- Co-director (elected), Chinese Pollen Database Working Group, Beijing
 1988-96 Member, U.S. National Committee for the International Union for Quaternary Research (USNC/INQUA)--appointed by the National Academy of Sciences; two consecutive 4-year terms
 1991-93 Member (elected), Board of Directors, Biogeography Specialty Group, Association of American Geographers (AAG)

J. Honors and Prizes Received

- 2004 Recipient of LSU Distinguished Faculty Award (university-wide)
 2001 Recipient of LSU Tiger Athletic Foundation Undergraduate Teaching Award (university-wide)
 1994- Listed in *Who's Who in America*, *Who's Who in the World*, *Men of Achievement*
 1992- Listed in *Who's Who in Science and Engineering*, *Who's Who in American Education*, *Who's Who among Young American Professionals*, *Who's Who in the South and Southwest*
 1988 Nominee, Alan T. Waterman Award, NSF
 1983 Warren Nystrom Award, Association of American Geographers

K. Publicity and Recognition in Mass Media

My various research activities have been featured in many local, state, national and international newspapers, magazines, and radio and TV broadcasts. The following is only a partial list. For more details and internet links, please conduct a Google search under my name “Kam-biu Liu”.

International

- The Economist (2/26/00)
 New Scientist (9/25/93)
 International Herald Tribune (9/30/93)
 Financial Times (London) (8/28/96)
 The Royal Gazette (Bermuda) (5/13/98)
 Forest NEWS / Das Nachrichten-Archiv der Waldjugend Berline-Brandenburg (4/29/02)

National

- Science News (9/18/93, 5/20/00, 9/14/02)
<http://search.epnet.com/login.aspx?direct=true&db=aph&an=9309217685&loginpage=Login.asp>
<http://www.sciencenews.org/articles/20000520/bob9.asp>
<http://www.sciencenews.org/articles/20020914/note14ref.asp>
 Science (Vol. 287, pp. 1581-1583; 3/3/00)
 ScienceNOW
<http://sciencenow.sciencemag.org/cgi/content/full/1998/1210/2>
<http://sciencenow.sciencemag.org/cgi/content/full/2001/1003/2>
 National Geographic News (6/7/04, 6/8/04)
http://news.nationalgeographic.com/news/2004/06/0608_040608_hurricanes.html,

http://news.nationalgeographic.com/news/2004/06/0607_040607_hurricanehistory.html

The New York Times (9/28/93, 7/24/01, 10/25/02)

<http://query.nytimes.com/gst/abstract.html?res=F50A16FC3A5E0C778EDDAE0894D9404482>

http://www.nytimes.com/images/2001/07/24/science/sci_STORM_010724_00.html

Palm Beach Post (2/21/05)

The Philadelphia Inquirer (10/17/06)

San Francisco Examiner (9/5/96)

Fortune (9/8/97)

U.S. News and World Report (11/10/97; 9/4/06)

Earth Magazine (May 1994)

<http://search.epnet.com/login.aspx?direct=true&db=aph&an=9402257592&loginpage=Login.asp>

Currents (magazine published by the Woods Hole Oceanographic Institution) (Vol. 9, No. 3, 2002)

http://www.whoi.edu/home/about/currents_v9no3_hurricanes.html

Exposure: The Risk Management Solutions Magazine (autumn 2000)

The Flagship (Official Publication of the U.S. Navy) (8/27/98)

The Providence Sunday Journal (Providence, Rhode Island) (8/1/99)

Sun-Sentinel (South Florida) (9/15/97)

Tuscaloosa News (Tuscaloosa, Alabama) (9/28/93)

Mobile Register (Mobile, Alabama) (11/1/93, 9/22/96)

The News Herald (Panama City, Florida) (7/27/97)

Daily News Navare (Navare, Florida) (8/26/98)

Explorezone.com NEWS (http://explorezone.space.com/archives/00_03/03_hurricane_odds.htm)

Science Daily Magazine (<http://www.sciencedaily.com/release/2000/03/000303080452.htm>)

State

The Times-Picayune (New Orleans) (11/16/00)

The Daily Advertiser: History of Louisiana (No. 29; 9/28/99)

Louisiana State Voice (Vol. 4, No. 2, 1992)

Sauce Piquante (South Louisiana) (Vol. 1, no. 5, 1998)

Pilot (Cameron, LA, weekly) (4/3/97)

New Roads-Point Coupee Banner (New Roads, LA) (9/21/95)

St. Charles Herald-Guide (Norco, LA) (1/7/95)

St. Tammany News Banner (Covington, LA) (10/23/94)

Meridional (Abbeville, LA) (11/17/94)

Madison Journal (Tallulah, LA) (11/9/94)

Local & LSU

The Advocate (Baton Rouge) (5/14/94, 8/2/95, 2/24/00, 3/7/00)

LSU Research (2005 Storm issue)

<http://www.research.lsu.edu/newsletter/archives/2005storm/nature.htm>

LSU Today (10/28/94, 7/28/95, 10/20/95, 5/16/97, 5/10/02, 7/25/03)

<http://www.lsu.edu/highlights/023/paleo.htm>

[http://appl003.lsu.edu/UNV002.NSF/\(NoteID\)/4E68FC0ECAA2770A86256D6B004A12DF?OpenDocument](http://appl003.lsu.edu/UNV002.NSF/(NoteID)/4E68FC0ECAA2770A86256D6B004A12DF?OpenDocument)

LSU Magazine (Spring 1996, Summer 2000, Fall 2003)

<http://appl003.lsu.edu/unv002.nsf/eec036ee07535d1d8625649200513bd5/f2ca6c8357af4206862568e0004e933a?OpenDocument>

Arts & Sciences @ LSU (Fall 1997)

The Reveille (LSU student newspaper) (11/10/94, 9/19/95, 3/21/00, 5/2/02)

Baton Rouge Daily News (10/24/94)

Radio and TV Programs

German ZDF TV, documentary program on hurricanes and paleotempestology, “Geschichtsbuch der Stürme: Die Wissenschaft der Paläotempestologie” (10/11/06)

<http://www.zdf.de/ZDFde/inhalt/15/0,1872,3986767,00.html>

Discovery Channel, documentary program on “Everything You Need to Know: Hurricanes” (3/8/06, and re-run several times since then)

Discovery Channel, documentary program on “Killer Hurricane: Anatomy of Katrina” (9/2/05, broadcasted internationally)

National Geographic TV channel, “Violent Earth” documentary program (5/8/05, broadcasted internationally)

New Scientist, podcast on paleotempestology: “Speaking in tongues” (6/9/06)

<http://www.newscientist.com/podcast.ns>

BBC radio: “Oldest noodles unearthed in China” (10/12/05)

<http://news.bbc.co.uk/2/hi/science/nature/4335160.stm>

BBC radio: Science in Action (5/6/00)

BBC TV: Weather series, special feature on Paleotempestology (2005)

CNN (Atlanta) (special feature on hurricanes, 10/3/00)

http://archives.cnn.com/2000/TECH/computing/12/08/hurricane.t_t/

NPR (National Public Radio): “Neolithic noodles unearthed in China” (10/12/05)

<http://www.npr.org/templates/story/story.php?storyId=4957805#email>

WTVD (CBS affiliate in Raleigh/Durham, North Carolina), special feature on hurricanes (6/29/02)

WWL-Channel 4 (CBS affiliate, New Orleans), special feature on hurricanes (6/5/00)

WBRZ-Channel 2 (ABC affiliate, Baton Rouge) evening news (2/28/00)

WAFB-Channel 9 (CBS affiliate, Baton Rouge) evening news (2/25/00)

L. External Referee for Tenure and/or Promotion

23 P&T cases since 1992

THESES/DISSERTATIONS DIRECTED (AS MAJOR PROFESSOR)

Ph.D. Graduates (8): Lawrence Kiage (2007); Carl A. Reese (2003); Caiming Shen (2003); Zuju Yao (2000); Andrew Maxwell (1999); Miriam Fearn (1995); Xu Li (1994); Hong-lie Qiu (1994)

M.Sc. Graduates (8): Tom Bianchette (2007), Jason Knowles (2004), Carl A. Reese (2000); Xinyu Zhou (1998); Linda Pace (1998); Karen Thomas (1996); Kari Gathen (1994); Chris Coggins (1991)

Current students (5): Terry McCloskey (PhD), Jason Knowles (PhD), Jennifer Hathorn (MSc), Tom Bianchette (PhD), Yun Huang (MSc)

Ph.D. dissertations and M.Sc. theses completed under my direction: (Ph.D.=8; M.S.=8)

Bianchette, T., 2007. “Using Hurricane Ivan as a modern analog in paleotempestology: Lake sediment studies and environmental analysis in Gulf Shores, Alabama”, M.S. thesis, 135 p.

Kiage, L.M., 2007. “Vegetation change and land degradation in the Lake Baringo area, Kenya, during the late Holocene: Evidence from the paleorecord and remote sensing”, Ph.D. dissertation.

Knowles, J.T., 2004. “Coastal lake-sediment records of prehistoric hurricane strikes in Honduras and Turks and Caicos Islands of the Caribbean Basin”, M.S. thesis, 114 p.

Reese, C.A., 2003. “Pollen dispersal and deposition in the high-central Andes, South America”, Ph.D.

- dissertation, 124 p. **
 (** Andy Reese's dissertation won the LSU Distinguished Dissertation Award for 2003. He also won a Warren Nystrom Award for the best dissertation in Geography at the 100th Annual Meeting of the Association of American Geographers in Philadelphia, March 2004).
- Shen, C., 2003. "Millennial-scale variations and centennial-scale events in the SW Asian monsoon: Pollen evidence from Tibet", Ph.D. dissertation, 289 p.
- Yao, Z., 2000. "Ice-core pollen studies from the Dunde and Guliya ice caps, Qinghai-Tibetan Plateau, China", Ph.D. dissertation, 248 p.
- Reese, C.A., 2000. "Late-Holocene vegetation changes at Bluff Swamp, Louisiana", M.S. thesis, 102 p.
- Maxwell, A.L., 1999. "Holocene environmental change in mainland Southeast Asia: Pollen and charcoal records from Cambodia", Ph.D. dissertation, 290 p.
- Zhou, X., 1998. "A 4,000-year pollen record of vegetation changes, sea level rise, and hurricane disturbance in the Atchafalaya Marsh of southern Louisiana", M.Sc. thesis, 143 p.
- Pace, L.C., 1998. "A palynological study of two upland bogs in the Gulf Coastal Plain, Alabama and Mississippi", M.N.S. thesis, 103 p.
- Thomas, K.L., 1996. "A palynological study of swamp sediments at the Poverty Point archaeological site, northeastern Louisiana". M.Sc. thesis, 134 p.
- Fearn, M.L., 1995. "Louisiana's Cajun Prairie: Holocene history of a southern grassland". Ph.D. dissertation, 283 p.
- Gathen, K., 1994. "Ecological impacts of historic and prehistoric hurricanes on Horn Island, Mississippi". M.Sc. thesis, 134 p.
- Qiu, H.L., 1994. "Late-Holocene vegetational history of a subtropical mountain in southeast China", Ph.D. dissertation, 138 p.
- Li, X., 1994. "A 6200-year environmental history of the Pearl River Marsh, Louisiana". Ph.D. dissertation, 208 p.
- Coggins, C., 1991. "Mapping the modern distribution of major tree genera in China". M.Sc. thesis, 169 p.

As Committee Member:

I have served as committee member for about 30 graduate students in Geography, Botany, Zoology, Geology, and Marine Science at LSU during the past 20 years.

TEACHING (at LSU):

Teaching Award

Recipient of LSU Tiger Athletic Foundation Undergraduate Teaching Award in 2001

Teaching Recognition

I was twice recognized in 1998 and 2002 by the *Alpha Lambda Delta Freshman Honor Society* for "Dedication to instruction of freshman students".

Regular courses

OCS 7001 – Global Change in the Quaternary (2007)

GEOG 2051 -- Physical Geography: Land & Water Surfaces, Plant and Animal Realms

GEOG 4082 -- Biogeography

GEOG/ANTH 4083 -- Quaternary Paleoecology

GEOG 7917/7921 -- Advanced Physical Geography (Graduate Seminar)

Topics taught: Quaternary Paleoenvironmental Reconstruction (2004)

Hurricanes: Climate and Society (2002)

Paleoecological Perspectives in Global Environmental Change (2000)

Cultural Palynology (1996)
Quaternary Paleoclimate and Vegetation History (1995)
Cultural Palynology (1993)

Ad hoc courses (Taught occasionally)

GEOG 4070 -- Environmental Conservation
GEOG 4085 -- Tropical and Subtropical Biogeography
GEOG 7921 -- Research and Independent Studies
GEOG 7901 -- Introduction to Graduate Studies
GEOG 2061 -- Physical Geography