

Michaele Kashgarian: Selected Publications

Recent Talks:

[Kashgarian, M. and Palmer, S., 2004. LLNL Science on Saturday: Isotopes, Oceans and Climate Change.](#)

Kashgarian, M. and Knezovich, J.P., 2003. Radiocarbon as a signature of bacterial growth media, ORNL Workshop on Mass Spectrometry in Homeland Security.

Kashgarian, M., 2003. Radiocarbon as an Ocean Circulation Tracer, LLNL Edward Teller Education Center Science and Technology Symposium.

Publications:

Friddell, J.E., Thunell, R.C., Guilderson, T.P. and Kashgarian, M., 2003. Increased northeast Pacific climatic variability during the warm middle Holocene. *Geophysical Research Letters*, 30(11).

Adkins, J.F., Griffin, S., Kashgarian, M., Cheng, H., Druffel, E. R. M., Boyle, E. A., Edwards, R. L. and Shen, C., 2002. Radiocarbon dating of deep-sea corals. *Radiocarbon*, 44(2): 567-580.

Southon, J., Kashgarian, M., Fontugne, M., Metivier, B. and Yim, W.W.S., 2002. Marine reservoir corrections for the Indian Ocean and southeast Asia. *Radiocarbon*, 44(1): 167-180.

Benson, L., Kashgarian, M., Rye, R., Lund, S., Paillet, F., Smoot, J., Kester, C., Mensing, S., Meko, D. and Lindstrom, S., 2002. Holocene multidecadal and multicentennial droughts affecting Northern California and Nevada. *Quaternary Science Reviews*, 21(4-6): 659-682.

Goldstein, S.J., Lea, D.W., Chakraborty, S., Kashgarian, M. and Murrell, M.T., 2001. Uranium-series and radiocarbon geochronology of deep-sea corals: implications for Southern Ocean ventilation rates and the oceanic carbon cycle. *Earth and Planetary Science Letters*, 193(1-2): 167-182.

Druffel, E.R.M., Griffin, S., Guilderson, T. P., Kashgarian, M., Southon, J. and Schrag, D. P., 2001. Changes of subtropical North Pacific radiocarbon and correlation with climate variability. *Radiocarbon*, 43(1): 15-25.

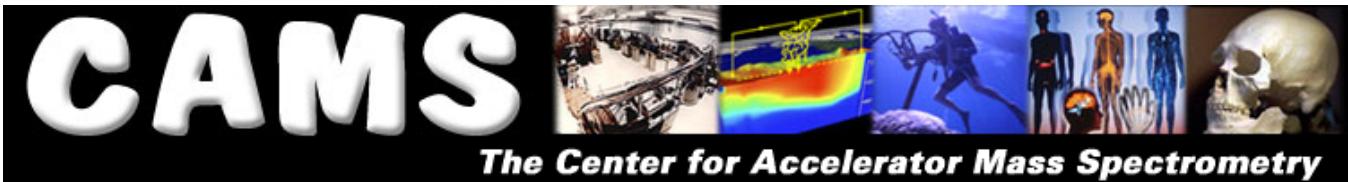
Schroeder, P.A., Melear, N.D., Bierman, P., Kashgarian, M. and Caffee, M.W., 2001. Apparent gibbsite growth ages for regolith in the Georgia Piedmont. *Geochimica Et Cosmochimica Acta*, 65(3): 381-386.

Frantz, B.R., Kashgarian, M., Coale, K.H. and Foster, M.S., 2000. Growth rate and potential climate record from a rhodolith using C-14 accelerator mass spectrometry. *Limnology and Oceanography*, 45(8): 1773-1777.

Guilderson, T.P., Schrag, D. P., Goddard, E., Kashgarian, M., Wellington, G. M. and Linsley, B. K., 2000. Southwest subtropical pacific surface water radiocarbon in a high-resolution coral record. *Radiocarbon*, 42(2): 249-256.

Black, D.E. et al., 1999. Eight centuries of North Atlantic Ocean atmosphere variability. *Science*, 286(5445): 1709-1713.

Lasserre, C., Morel, P. H., Gaudemer, Y., Tapponnier, P., Ryerson, F. J., King, G. C. P., Metivier, F., Kasser, M., Kashgarian, M., Baichi, L., Taiya, L. and Daoyang, Y., 1999. Postglacial left slip rate and past occurrence of $M \geq 8$ earthquakes on the western Haiyuan fault, Gansu, China. *Journal of Geophysical Research-Solid Earth*, 104(B8): 17633-17651.



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Benson, L.V., Lund, S. P., Burdett, J. W., Kashgarian, M., Rose, T. P., Smoot, J. P. and Schwartz, M., 1998. Continuous lake-sediment records of glaciation in the Sierra Nevada between 52,600 and 12,500 C-14 yr BP. *Quaternary Research*, 50(2): 113-127.

Guilderson, T.P., Schrag, D.P., Kashgarian, M. and Southon, J., 1998. Radiocarbon variability in the western equatorial Pacific inferred from a high-resolution coral record from Nauru Island. *Journal of Geophysical Research-Oceans*, 103(C11): 24641-24650.

Hughen, K.A., Overpeck, J.T., Lehman, S.J., Kashgarian, M. and Southon, J.R., 1998. A new C-14 calibration data set for the last deglaciation based on marine varves. *Radiocarbon*, 40(1): 483-494.

Wang, X.C., Druffel, E.R.M., Griffin, S., Lee, C. and Kashgarian, M., 1998. Radiocarbon studies of organic compound classes in plankton and sediment of the northeastern Pacific Ocean. *Geochimica Et Cosmochimica Acta*, 62(8): 1365-1378.

Benson, L.V. et al., 1998. Correlation of late-Pleistocene lake-level oscillations in Mono Lake, California, with North Atlantic climate events. *Quaternary Research*, 49(1): 1-10.

Hughen, K.A., Overpeck, J. T., Lehman, S. J., Kashgarian, M., Southon, J., Peterson, L. C., Alley, R. and Sigman, D. M., 1998. Deglacial changes in ocean circulation from an extended radiocarbon calibration. *Nature*, 391(6662): 65-68.

Benson, L., Burdett, J., Lund, S., Kashgarian, M. and Mensing, S., 1997. Nearly synchronous climate change in the Northern Hemisphere during the last glacial termination. *Nature*, 388(6639): 263-265.

Moore, M.D., Schrag, D.P. and Kashgarian, M., 1997. Coral radiocarbon constraints on the source of the Indonesian throughflow. *Journal of Geophysical Research-Oceans*, 102(C6): 12359-12365.

Benson, L.V., Smoot, J.P., Kashgarian, M., SarnaWojcicki, A. and Burdett, J.W., 1997. Radiocarbon ages and environments of deposition of the Wono and Trego Hot Springs tephra layers in the Pyramid Lake Subbasin, Nevada. *Quaternary Research*, 47(3): 251-260.

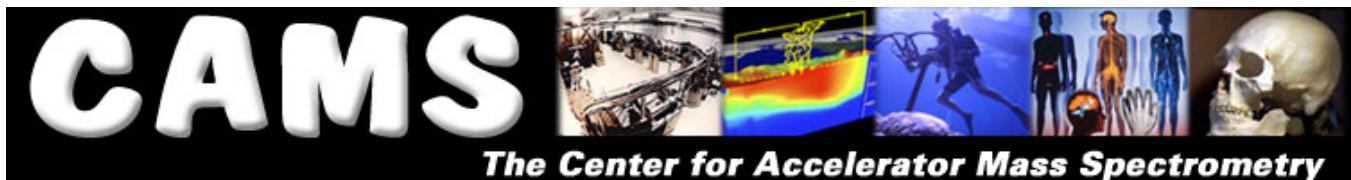
Conrad, M.E., Daley, P. F. and Kashgarian, M., 1997. Combined C-14 and delta C-13 monitoring of in situ biodegradation of petroleum hydrocarbons. *Environmental Science & Technology*, 31(5): 1463-1469.

Ortiz, J., Mix, A., Hostetler, S. and Kashgarian, M., 1997. The California current of the last glacial maximum: Reconstruction at 42 degrees N based on multiple proxies. *Paleoceanography*, 12(2): 191-205.

vanGeen, A., Fairbanks, R. G., Dartnell, P., McGann, M., Gardner, J. V. and Kashgarian, M., 1996. Ventilation changes in the northeast Pacific during the last deglaciation. *Paleoceanography*, 11(5): 519-528.

Benson, L.V., Kashgarian, M. and Rubin, M., 1996. Climatic and hydrologic oscillations in the Owens Lake basin and adjacent Sierra Nevada, California. *Science*, 274(5288): 746-749.

Druffel, E.R.M., Griffin, S., Witter, A., Nelson, E., Southon, J., Kashgarian, M. and Vogel, J., 1995. Gerardia - Bristlecone-Pine of the Deep-Sea. *Geochimica Et Cosmochimica Acta*, 59(23): 5031-5036.



The Center for Accelerator Mass Spectrometry

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Benson, L., Kashgarian, M. and Rubin, M., 1995. Carbonate Deposition, Pyramid Lake Subbasin, Nevada .2. Lake Levels and Polar-Jet Stream Positions Reconstructed from Radiocarbon Ages and Elevations of Carbonates (Tufas) Deposited in the Lahontan Basin. *Palaeogeography Palaeoclimatology Palaeoecology*, 117(1-2): 1-30.

Goodfriend, G.A., Kashgarian, M. and Harasewych, M.G., 1995. Use of Aspartic-Acid Racemization and Post-Bomb C-14 to Reconstruct Growth-Rate and Longevity of the Deep-Water Slit Shell *Entemnotrochus-Adansonianus*. *Geochimica Et Cosmochimica Acta*, 59(6): 1125-1129.