

- B. PACHACAMAC (Department of Lima, 12°14'S, 76°52'W, 29 km from Lima) Peru.
The sample was collected by L. Langouet and E. López Carranza. Description of the site is given by Engel (1976).
UNI-TL-3 Inca culture (?) 500 (± 30 , ± 60), A.D. 1480
Pottery: Pach-1, Depth 0.30 m.
Comments- Natural dose: 380 rads ($I = 50$), $\delta Q = 7\%$, plateau $\approx 80C$. Annual dose: 0.75 rads/yr, $\alpha_1/\alpha_0 = 1.0$, sherd water ≈ 0 , $a = 0.15$, $\delta a = 20\%$.
- C. HUARMEY (Department of Ancash, 10°03'S, 78°09'W, on the coast) Peru.
Buried fired stones were collected by D. Bonavia from the Universidad Cayetano Heredia, Lima. Datation of some of these stones are reported by j-F-Rouanet (1976).
UNI-TL-4 Chaviñ de Huantar (?) 2070 (± 120 , ± 210), 90 B.C.
Fired stone: PV 35-1, B-10. Depth 1.50 m.
Comments- Natural dose: 1370 rads ($I = 190$), $\delta Q = 5\%$, Plateau $\pm 70C$. Annual dose: 0.66 rads/yr, $\alpha_1/\alpha_0 = 1.0$, sherd water ≈ 0 , $a = 0.15$, $\delta a = 20\%$.
- D. MARCAVALLE (Department of Cuzco, 13°31'S, 71°57'W, on a mountain valley) Peru.
The sherd was collected by L. Barreda from the Universidad Nacional San Antonio Abad del Cuzco. Datations on this site are given by K. M. de Chaves (1977).
UNI-TL-5 Chanapata sherd (?) 2380 (± 150 , ± 170), 400 B.C.
Pottery: Marc-1. Depth 1.50 m.
Comments- Natural dose: 840 rads ($I = 10$), $\delta Q = 9\%$, plateau $\approx 70C$. Annual dose: 0.35 rad/yr using $(\alpha_0 + \alpha_1)/2$, $\alpha_1/\alpha_0 = 1.07$, sherd wt. sat/dry = 1.0, sherd burial water = saturation, $a = 0.17$, $\delta = 9\%$.

* * * * *

SOME RECENT BIBLIOGRAPHY

- M. C. Beltrão, J. Danon, C. R. Enriquez, G. Poupeau and E. Zuleta (1982) Sur l'arrivée de l'Homme en Amérique: datations par thermoluminescence des silex brûlés du site archéologique Alice Boer (Brésil). *C. R. Acad. Sci. Paris*, 295, 629-632.
- M. David, S. P. Kathuria and C. M. Sunta (1982) Thermoluminescence of quartz: 9 Kinetics of glow peaks. *Indian Journal of Pure and Applied Physics*, 20, 519-523.
- J. Gasiot, P. Braunlich and J. P. Fillard (1982) Laser heating in thermoluminescence dosimetry. *Journal of Applied Physics*, 53, 5200-5209.
- Y. S. Horowitz, M. Moscovitch and A. Dubi (1982) Response curve for the thermoluminescence induced by alpha particles: interpretation using track structure theory. *Physics in Medicine and Biology*, 27, 1325-1338.

- M. Ikeya (1982) Electron spin resonance of petrified woods for geological age assessment. *Japanese Journal of Applied Physics*, 21, L28-L30.
- Li Hu Hou (1982) Dating by quartz thermoluminescence. *Kexue Tongbao*, 27, 304-308.
- K. Lemons and J. L. McAtee (1982) Induced thermoluminescence of some clay minerals. *Clays and Clay Minerals*, 30, 311-314.
- E. Lilley (1982) Trapping parameters from isothermal decay of thermoluminescence: comments. *Journal of Physics D*, 15, L17-L18.
- Y. Liritzis and R. B. Galloway (1982) Grain size distribution in ceramics and the beta dose-rate for thermoluminescence dating. *Nuclear Instruments and Methods*, 196, 505-506.
- Y. Liritzis and R. B. Galloway (1982) A new approach to the beta-dosimetry of ceramics for thermoluminescence dating. *Nuclear Instruments and Methods*, 201, 503-508.
- S. W. S. McKeever and P. D. Townsend (1982) Thermoluminescence of meteorites and their terrestrial ages. Comment. *Geochimica et Cosmochimica Acta*, 46, 1997-1998.
- C. L. Melcher (1982) Thermoluminescence of meteorites and their terrestrial ages. Reply. *Geochimica et Cosmochimica Acta*, 46, 1999-2000.
- T. Miki and M. Ikeya (1982) Physical basis of fault dating with ESR. *Naturwissenschaften*, 69, 390-391.
- S. V. Moharil (1981) On the variation of the order of kinetics during a thermoluminescence run. *Phys. Status Solidi A*, 68, 413-418.
- K. S. V. Nambi (1982) Self-dose and fading of CaSO_4 (Dy/Tm) and CaF_2 (natural) TL phosphors in environmental radiation monitoring. *Nuclear Instruments and Methods*, 197, 453-457.
- K. Pye (comments) and A. K. Singhvi (reply) (1982) Thermoluminescence dating of sand dunes. *Nature*, 299, 376.
- B. Speit and G. Lehmann (1982) A comparative study of thermoluminescence and isothermal destruction of radiation defects in feldspars. *Journal of Luminescence*, 27, 127-136.
- Y. Yokoyama, J-P. Quaegebeur, R. Bibron, C. Leger, H-V. Nguyen and G. Poupeau (1982) Datation du site de l'Homme de Tautavel par la resonance de spin electronique (ESR). *C.R.Acad.Sc. Paris*, 294, 759-764.
- S. Vynckier and A. Wambersie (1982) Dosimetry of beta sources in radiotherapy I. The beta point source dose function. *Physics in Medicine and Biology*, 27, 1339-1347.