2. The discrepancies between the values for the polymorphic transition pressures in solids, in particular in Cs, Tl, and Ba, as found from different samples by different authors, may be accounted for by the hysteresis in these transitions of the first kind, which is essentially dependent on the experimental conditions (nature of the stresses produced in the sample).

3. In view of this, a pressure scale based on fixed values of the transition pressures in solids is very arbitrary, and depends on the type of apparatus used to measure the transition parameters.

4. Calibrating high pressure apparatus from the changes in a number of independent physical phenomena occurring under pressure, such as the change in electrical resistance with pressure, melting points, compressibility, etc., will obviously be more reliable.

LITERATURE CITED

1. P. W. Bridgman, Proc. Am. Acad. Art Sci., 81, 4 (1952).
2. G. C. Kennedy and P. N. La Mori, Progress in Very High Pressure Research, John Wiley and Sons, N. Y., 304-311 (1961).
3. F. R. Boyd and I. L. England, J. Geoph. Res., 65, 2 (1960).
4. P. W. Bridgman, Proc. Am. Acad. Art Sci., 74, 1 (1940).
5. P. W. Bridgman, Proc. Am. Acad. Art Sci., 72, 5 (1938).
6. P. W. Bridgman, Proc. Am. Acad. Art Sci., 72, 4 (1938).
7. P. W. Bridgman, Proc. Am. Acad. Art Sci., 74, 13 (1942).
8. P. W. Bridgman, Proc. Am. Acad. Art Sci., 76, 3 (1948).
9. E. G. Ponyatovskii, Kristallografiya, 4, 2 (1959) [Soviet Physics–Crystallography, Vol. 4, p. 237].
10. A. Jayaraman, R. C. Newton, and G. C. Kennedy, Nature, 191, 4795 (1961).
11. E. G. Ponyatovskii and G. I. Peresada, DAN SSSR, 144, No. 1 (1962).
12. E. G. Ponyatovskii, DAN SSSR, 120, No. 5, 1021 (1958)[Soviet Physics–Doklady, Vol. 3, p. 498].
13. V. P. Butuzov, Kristallografiya, 2, No. 4, 536 (1957) [Soviet Physics–Crystallography, Vol. 2, p. 533].
14. F. Dachille, Progress in Very High Pressure Research, John Wiley and Sons, N. Y., 311-313 (1961).
15. P. W. Bridgman, Phys. Rev., 48, 11 (1935).
16. M. K. Zhokhovskii, Izmerit. tekhnika, No. 2 (1957).
17. M. K. Zhokhovskii, Izmerit. tekhnika, No. 4 (1957).

All abbreviations of periodicals in the above bibliography are letter-by-letter transliterations of the abbreviations as given in the original Russian journal. *Some or all of this periodical literature may well be available in English translation.* A complete list of the cover-to-cover English translations appears at the back of this issue.