Letter to the Editor

Dear Sir,

In response to the note of Criado and Ortega (C & O) [1], we would like to make the following statements.

(1) In our note [2], we stated that the validity of eqn. (1) was assumed. To us, this *clearly* indicates that we are concerned with "*n*-type" reaction only (a = 1).

(2) In regard to the determination of reaction mechanism, we refer C & O to our recent article [3]. In this, an equation similar to the one discussed by C & O was employed, under certain conditions, to distinguish one mechanism from among 15 theoretical possibilities for heterogeneous solid-state reactions.

(3) In ref. 3, we further state that conclusions regarding a correct mechanism should be confirmed, if possible, by means of X-ray diffraction and/or microscopy. Also, we state that additional techniques, e.g. isothermal, may be necessary to distinguish one mechanism from another.

REFERENCES

1 J.M. Criado and A. Ortega, Thermochim. Acta, 44 (1981) 239.

2 L. Reich and S.S. Stivala, Thermochim. Acta, 36 (1980) 103.

3 L. Reich and S.S. Stivala, Thermochim. Acta, 34 (1979) 287.

L. Reich S.S. Stivala Department of Chemistry and Chemical Engineering Stevens Institute of Technology Hoboken NJ 07030, U.S.A.