triple product are listed. For example, the derivative of C $(C = c_1 + c_2 + c_3)$ with respect to x is equal to $2\pi(-hm_1 - lq_2 - ko_3)$.

The geometrical structure factors for each set of parity conditions on the indices for every cubic space group are presented in Table 3 in terms of the sums of triple products defined in Table 1. The presentation follows that of *International Tables for X-ray Crystallography* (1952); in cases where the *International Tables* give a choice of origins, the origin is taken at a center. Corrections in O^7 and O_h^7 have been made as directed by the errata sheet.

For our programs we have utilized similarities in the structure factor expressions for different space groups. For example, the structure factor expressions for T^1, T^2, and T^3 are identical except for a different multiplicity factor; the same applies for space groups T_h^1, T_h^3, and T_h^5, O^1, O^3, and O^5, T_d^1, T_d^2, and T_d^3, and O_h^1, O_h^5, and O_h^9. Some pairs of space groups whose similarities have been utilized are T^4 and T^5, T_h^2 and T_h^4, T_h^4 and O_h^7, O^6 and O^7, O^8 and T_d^6, T_d^6 and O_h^{10}, O_h^2 and O_h^4, and O_h^7 and O_h^8.

We give one example to illustrate the use of the tables. Consider reflections $h+k = 2n+1$, $k+l = 2n+1$ in space group T_h^2. For the atoms in one set of general 24-fold positions,

$$F_c = -8I = -8(i_1 + i_2 + i_3)$$

$$\partial F_c/\partial x = -8(2\pi)(hq_1 + lm_2 - kk_3)$$
$$= -8(2\pi)[h\cos(2\pi hx)\cos(2\pi ky)\sin(2\pi lz)$$
$$+ l\sin(2\pi hy)\cos(2\pi kz)\cos(2\pi lx)$$
$$- k\sin(2\pi hz)\sin(2\pi kx)\sin(2\pi ly)] .$$

We get F_c from Table 3, I from Table 1, and the derivatives from Table 2.

I thank Drs Richard E. Marsh and Sten Samson for helpful discussions and encouragement.

References

International Tables for X-Ray Crystallography (1952). Vol. I. Birmingham: Kynoch Press.
HYBL, A. & MARSH, R. E. (1961). *Acta Cryst.* **1 4**, 1046

Notes and News

Announcements and other items of crystallographic interest will be published under this heading at the discretion of the Editorial Board. The notes (in duplicate) should be sent to the General Secretary of the International Union of Crystallography (D. W. Smits, Mathematisch Instituut, University of Groningen, Reitdiepskade 4, Groningen, The Netherlands). Publicat.on of an item in a particular issue cannot be guaranteed unless the draft is received 8 weeks before the date of publication.

International Union of Crystallography

Acta Crystallographica

The Executive Committee of the Union and the Commission on *Acta Crystallographica* regret to announce that pressure of other work has caused the resignation of Professor E. W. Hughes as Co-editor of *Acta Crystallographica*. Professor Hughes was appointed in 1956 when the increasing number of papers offered for publicaiton in the journal made the appointment of a second U.S.A. Co-editor desirable. The Union is greatly indebted to him for his work for *Acta Crystallographica*, and in this way for the community of crystallographers.

The Executive Committee has approved the appointment of Dr R. E. Marsh, of the California Institute of Technology, as successor to Professor Hughes.