DEPARTMENTS

Corrigendum

W. Waverly Graham has advised us that Eq. (10), which appeared on p. 533 in the June, 1970 issue of *Nuclear Applications and Technology*, is in error.

The correct equation is

$$\tau_1 = \frac{N_1/N_2 - 1}{(\Sigma p_i n_i)_2 + \frac{L_2 - L_1}{N_2}} \quad .$$

The correct derivation is

$$Q = \frac{N}{\tau} + L \tag{8}$$

$$\tau = 1/\Sigma p_i n_i \quad . \tag{9}$$

From Eq. (8),

$$\tau_1 = N_{1/(Q-L_1)} \text{ and } \tau_2 = N_2/(Q - L_2) \quad .$$

Therefore,

$$\tau_1 = N_1/[(N_2/\tau_2) + L_2 - L_1] \quad . \tag{A}$$

From Eq. (9),

$$\frac{1}{\tau_1} = (\Sigma p_i n_i)_1$$

and

$$\frac{1}{\tau_2} = \frac{1}{\tau_1} + (\Sigma p_i n_i)_2 \tag{B}$$

by the text definition of $(\Sigma p_i n_i)_2$ as nuclides added to the first solution to make up the second solution.

Dividing Eq. (A) by N_2:

$$\tau_1 = \frac{N_1/N_2}{\frac{1}{\tau_2} + \frac{L_2 - L_1}{N_2}}$$

and substituting from Eq. (B)

$$\tau_1 = \frac{N_1/N_2}{\frac{1}{\tau_1} + (\Sigma p_i n_i)_2 + \frac{L_2 - L_1}{N_2}} \quad , \tag{C}$$

then collecting terms:

$$\tau_1 = \frac{N_1/N_2 - 1}{(\Sigma p_i n_i)_2 + \frac{L_2 - L_1}{N_2}} \quad . \tag{10}$$