# CORRECTION TO MY PAPER, "ON <8>-COBORDISM"

BY

V. GIAMBALVO

In *on* ⟨8⟩-*cobordism*, Illinois J. Math., vol. 15 (1971), pp. 533–541, the proof of Theorem 3.3 is incorrect. The statement of the theorem, and the outline of a correct proof are given below.

THEOREM 3.3. (i) $d_2(\tau) = h_2\,\omega$, $\quad d_2(\kappa) = h_0\,d_0$.
(ii) $d_r(x) = 0$ *for all* $r$.
(iii) $d_3(e_0) = \omega c_0$.

*Proof.* (i) The sequence

$$\pi_{12}(BO) \xrightarrow{J} \pi_{11}(S) \to \Omega_{11}^{<8>} \to \pi_{11}(BO)$$

is exact, and $J$ is the ordinary $J$ homomorphism. Hence $\Omega_{11}^{<8>} = 0$, so $d_2(\tau)$ $h_2\,\omega$. The second part of 1 follows from $h_0\,\kappa = h_2\,\tau$.

(ii) By computing the relative group $\Omega^{<8>,\,\mathrm{spin}}$ one shows that $\Omega_{15}^{<8>} = Z_2$. Since there is only one infinite cycle in dimension 15, $[h_0^2\,\kappa]$, all the elements in dimension 16 must be infinite cycles, so (ii) follows.

(iii) It can be shown by a homotopy argument that $\omega c_0$ cannot live to $E_\infty$. It must be a cycle, hence also a boundary. Thus $d_3(e_0) = \omega c_0$.

The author would like to thank R. Schultz for the argument in (iii) as well as for pointing out the error in the proof of this theorem.

UNIVERSITY OF CONNECTICUT
STORRS, CONNECTICUT

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