## ERRATA

N. Cocchiarella: 'On the Logic of Nominalized Predicates and Its Philosophical Interpretations', *Erkenntnis* 13 (1978), 339–369.

*Corrigendum* to Section 7: Professor Edmund Gettier has pointed out to the author that since predication in ST\* corresponds to a relation and since being impredicable with respect to this relation is specifiable by a stratified wff, Russell's paradox can be reconstructed in (dyadic) ST\* after all.

It should be noted in this regard that the relative consistency proof in [7] is not for the full relational ST\* system but for *monadic* ST\*. The author's gloss in this matter was in his implicit assumption that by means of the Wierner-Kuratowski ordered pair construction we can prove the consistency of the full relational ST\* system relative to that of monadic ST\*.

Nevertheless, although the Wiener-Kuratowski construction fails for ST<sup>\*</sup> it does suffice to prove the consistency of the system HST<sup>\*</sup> corresponding to *homogeneous* simple type theory. HST<sup>\*</sup> is exactly like ST<sup>\*</sup> except for replacing (SCP<sup>\*</sup>), the stratified comprehension principle, by the *homogeneously* stratified comprehension principle (HSCP<sup>\*</sup>) which is itself exactly like (SCP<sup>\*</sup>) described above except for the additional restriction that the entire biconditional

$$[F(a_0,\ldots,a_{n-1})\leftrightarrow\varphi]$$

must be homogeneously stratified. (A wff  $\psi$  is homogeneously stratified if there exists an assignment s of natural numbers to the variables occurring in  $\psi$  such that for each atomic subwff  $G(b_0, \ldots, b_{k-1})$  of  $\psi$ , (1) s  $(b_i)$ = s  $(b_i)$ , for all i, j < k, and (2) s  $(G) = 1 + s(b_0)$ .)

We observe that a monadic wff is stratified iff it is homogeneously stratified, and that consequently monadic ST\* is one and the same system as as monadic HST\*. Moreover, although predication is specifiable by a stratified wff it does not represent a relation in HST\* since the biconditional:

$$\exists R \forall F \forall x [ R (F, x) \leftrightarrow F(x) ]$$

is not homogeneously stratified. Moreover, by Russell's argument, in HST<sup>\*</sup> it is provable that there can be no relation corresponding to predication. Finally, other than the fact that predication is not a relation in HST<sup>\*</sup>, all of the remaining claims made above regarding ST<sup>\*</sup> carry over to HST<sup>\*</sup>.

## REFERENCE

[7] Cocchiarella, Nino, 'The Theory of Simple Types as a Second Order Logic', forthcoming in *Notre Dame Journal of Formal Logic*.