ERRATA in
“Lambda-calculus and Combinators in the 20th Century”

F. Cardone, felice@di.unito.it
J. Roger Hindley, hindley@waitrose.com

Chapter 13 (pp. 723–817) in
“Handbook of the History of Logic, Volume 5:
Logic from Russell to Church”,
edited by Dov M. Gabbay and John Woods,
published 2009 by Elsevier B.V., Amsterdam.

January 30, 2010

For information leading to some of these corrections, the authors thank Garrel Pottinger, Adrian Rezus, Bill Tait and Christian Thiel.

P.726, lines 3–4. Replace “However, none of these authors gave formal definitions of substitution and conversion, which are characteristic of CL and λ proper. These did not appear ...” by “However, none of these authors showed the interplay between reduction, substitution and conversion explicitly by means of a formal theory, as is done in CL and λ. The latter theories did not appear ...”.

P.727, footnote 3 (about the date of Schönfinkel’s birth). Add “The date 4-9-1889 comes from his entry in the records of the registration-office of the city of Göttingen for 1914.”


P.737, footnote 25. Add “But note that Henkin’s definition of general model needs modifying, otherwise his completeness theorem does not work; see Andrews General models and extensionality, J. Symbolic Logic 37 (1972), pp. 395–397.”

P.738, footnote 27. To “[Hindley and Seldin 1986, Def. A1.3]”, add “(Def. A2.5 in the 2008 edition)”. 

P.757, lines 1–2. “A×(·)” should be “(·)×A” in two places.

P.763, last line but one. “proposition” should be “propositions”.

P.766, last line. “..” should be “.”.

P.768, §8.3. In line 8, after “gave no procedure” should be added “(i.e. no explicit procedure of normalisation in the style of reduction in λ and CL)”.

In line 11, “The first proof to contain a procedure” should be “The first proof (at least, for a Natural Deduction analogue of GLC) to contain such a procedure”.

In line 15, “solved Takeuti’s problem” should be “proved a Natural Deduction analogue of Takeuti’s conjecture”.

P.769. Below the displayed equations for σ×τ, σ+τ, add “(Here t is not free in σ, τ)”.

P.772. Replace the last sentence of §8.3 by “Proofs of SN for deductions and WN for terms were included in [Seldin, 1987 §§4.3, 4.4] and [Seldin, 1997, §3]; a proof of SN for terms was given by Pottinger in Strong normalization for terms of the theory of constructions (Technical Report TR 11-7, 1987, Odyssey Research Associates, Ithaca, N.Y., U.S.A.), but not published.”
P.773, 4th paragraph. Add a footnote: “Sallé’s ω was not related to the ω-notation in [Dezani, 1975] mentioned earlier.”.


P.807. [Łukasiewicz, 1939]. Change “ă” to “Ä”.

P.814. [Seldin, 2008]. Change “2008” to “2009” and add “Chapter 14”.