BIBLIOGRAPHIC NOTICES

by

IRVING H. ANELLIS

Francine F. ABELES, *Infinitesimals are numbers*, Proceedings of the Canadian Society for the History and Philosophy of Mathematics/Société Canadienne d'Histoire et Philosophie des Mathématiques, vol. 9, Twenty-Second Annual Meeting, Brock University, St. Catharines, Ontario, May 30 – June 1, 1996, 38–47. Sketch of the history of the concept of infinitesimals, from Leibniz to Abraham Robinson's development of nonstandard analysis, with special consideration to the contributions of Charles L. Dodgson.

Rebecca ADAMS, *From analysis to general topology via the Borel Theorem*, Proceedings of the Canadian Society for the History and Philosophy of Mathematics/Société Canadienne d'Histoire et Philosophie des Mathématiques, vol. 9, Twenty-Second Annual Meeting, Brock University, St. Catharines, Ontario, May 30 – June 1, 48–62. An exposition of *compactness* through a historical discussion of its origins.

James E. BAUMGARTNER, *In Memoriam: Paul Erdös, 1913 – 1996*, Bulletin of Symbolic Logic **3** (1997), 70–72. This obituary of Erdös focuses on his contributions to set theory.

Leo CORRY, Review of José Ferreirós Dominguez, *El nacimiento de la teoria de conjuntos, 1854–1980*, LLULL: Revista de la Sociedad Español de Historia de las Ciencias y de las Técnias **19**, no. 37 (1996), 613–617.

José FERREIRÓS, *Traditional logic and the early history of sets, 1854 – 1908*, Archive for the History of Exact Sciences **50** (1996), 1–67. Asserts that Cantor is correctly regarded as the founder of transfinite set theory, but that Riemann and Dedekind already were using sets in their work.

Nadine GESSLER, *George Boole et l'algèbre de la logique*, in *Études logiques* (Neuchâtel, Université de Neuchâtel, 1993), 123–169. Explores the connections between Boole's ideas and the work of George Peacock and Augustus De Morgan and the influences which Peacock's symbolic algebra and De Morgan's formal logic had on Boole.

Mariano HORMIGON, Review of David Hilbert, *Fundamentos de las Matematicas* (Selección e introducción de Carlos Alvarez y Luis Felipe Segura), LLULL: Revista de la Sociedad Español de Historia de las Ciencias y de las Técnias **17**, no. 33 (1994), 525–527.

Donald A. MARTIN, *Recent work on large cardinals and determinacy*, Bulletin of Symbolic Logic **3** (1997), 80. Abstract of a talk delivered at the

1995 European Summer Meeting of the Association for Symbolic Logic. The talk concentrates on work done on the connections between large cardinals and determinacy carried out in the past two or three years and discussing remaining open questions

Gregory H. MOORE, *Felix Hausdorff and the emergence of order: 1900–1908,* Proceedings of the Canadian Society for the History and Philosophy of Mathematics/Société Canadienne d'Histoire et Philosophie des Mathématiques, vol. 9, Twenty-Second Annual Meeting, Brock University, St. Catharines, Ontario, May 30 – June 1, 121–135. Outlines Hausdorff's contributions to general set theory.

Gregory H. MOORE, *Letter to the editor: Is mathematical logic a part of mathematics?,* Historia Mathematica **24** (1997), 210–212. Argues to affirm that mathematical logic is a part of mathematics, and an important part, and provides examples of the interconnections between mathematical logic and other branches of mathematics, in particular the contributions which the tools of logic have made to other areas, including, for example, aspects of abstract algebra.

Roman MURAWSKI, Review of Volker Peckhaus, *Hermann Ulrici (1806 – 1884). Der Hallensche Philosoph und die englische Algebra der Logik. Mit einer Auswahl von Texten Ulricis zur Logik und einer Bibliographie seiner Schriften,* Studia Logica **58** (1997), 335–337. The reviewer sees this work as an important "contribution to the problem of the reception of the algebra of logic in Germany."

PRINCETON UNIVERSITY ALUMNI, *Alonzo Church, '24 *27,* Princeton Alumi Weekly (February 5, 1997), 47. Very brief obituary notice.

PRINCETON UNIVERSITY ALUMNI, *George S. Boolos, '60,* Princeton Alumi Weekly (February 5, 1997), 55. Very brief obituary notice.

David STAUFFER, *L'avènement de théorie sémantique de la vérité de Tarski,* in *Études logiques* (Neuchâtel, Université de Neuchâtel, 1993), 71–121. Looks at some of the "predecessors" of Tarski's semantic conception of truth, including Wittgenstein.

Allard M. TAMMINGA, *Logics of rejection: Two systems of natural deduction,* Logique et Analyse **146** (1994), 169–208. Two systems of of natural deduction are presented for the rejection of non-tautologies of classical propositional logic. The presentation of the two systems is preceded by a historical sketch centering on the work of Łukasiewicz as the "founding father" of this subject.