

REVISTA COLOMBIANA DE MATEMATICAS

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P R E F A C E

The Fifth Latin American Symposium on Mathematical Logic was held at the Universidad de los Andes, Bogotá, Colombia, from July 27 to July 31, 1981. The meeting was sponsored by the Universidad de los Andes and the Universidad Nacional de Colombia, under the auspices of the Association for Symbolic Logic. It received financial support from the two sponsoring universities, the Instituto Colombiano para el Fomento de la Educación Superior (ICFES), and the Fondo Colombiano de Investigaciones Científicas (COLCIENCIAS).

The Symposium was preceded by four short courses and followed by two more. They were: *Logica Modal* by N.C.A. da Costa; *El ϵ -cálculo de Hilbert y la Lógica intuicionista* by E.G.K. López-Escobar; *Complejidad de teorías lógicas* by K. Madlener; *Fundamentos del concepto de probabilidad* by R. Chuaqui; *Teoría de modelos de cuerpos y anillos locales* by M.A. Dickmann; and *Semántica de lenguajes de programación* by K. Madlener.

The conference was dedicated to the memory of Antonio Monteiro, who contributed decisively to the development of Mathematics and Logic in Portugal, Brazil and Argentina. He died in this last country in 1980. An inaugural address about his life and work was given by R. Cignoli (opening lecture of this volume).

The program of the conference consisted of invited lectures delivered by A. I. Arruda (Brazil), R. Cignoli (Brazil), M. Corrada (Chile), R. Chuaqui (Chile), N.C. da Costa (Brazil), M.A. Dickmann (France), C.A. Di Prisco (Venezuela), C. Federici (Colombia), S. Feferman (USA), G. Hoyos (Colombia), J. Keisler (USA), M. Laserna (Colombia), E.G.K. López-Escobar (USA), J. Malitz (USA), K. Madlener (Germany), J. Mycielski (USA), L. Peña (Ecuador), W. Reinhardt (USA), G. Reyes (Canada), M. Sánchez-Mazas (Spain), and M.A. Sette (Brazil). In addition eight contributed papers were read and seven more papers were presented by title. (*)

This volume contains English versions of some invited lectures made available by their authors; many of them are expanded version of the talks actually given at the Symposium. It includes also two contributed papers as well three more papers presented by title (Bunder, da Costa & Wolf, and Rot Routley).

(*) A complete list of abstracts of the talks and papers presented at the Symposium appears in the *Journal of Symbolic Logic*, Vol.48, Number 3 (1983), pp. 884-892.

A person whose devoted labor and enthusiasm was indispensable to the success of this Symposium was the late Ayda I. Arruda, active member of the Organizing Committee. The editors want to express their deep regret for the untimely demise, occurred in October of 1983. She was a decisive force in the success of many an enterprise related to Logic in Latin America, specially in Brazil, and her absence will be felt by her many friends.

The editors are indebted to the Sociedad Colombiana de Matemáticas and the Universidad Nacional de Colombia which have made possible the inclusion of this volume among their publications. Were not for the interest shown by J. Lesmes, President of the Society, and J.M. Muñoz, former head of the Mathematics Department of the Universidad Nacional, it would have been very difficult to overcome the damage caused by the original publishers when they unexpectedly broke publishing contract, causing the subsequent delay in the appearance of this volume. Special thanks are due to Mrs. Nohora de Sánchez for her excellent typing of the manuscript.

The Editors

(*) A complete list of contents of the table and subject presented of the Symposium appears in the Journal of Symbolic Logic, Vol. 48, Number 1 (1983), pp. 888-891.

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