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Edited by A. Dold and B. Eckmann

499

ISILC Logic Conference

Proceedings of the International Summer
Institute and Logic Colloquium, Kiel 1974

Edited by G. H. Müller, A. Oberschelp, and
K. Potthoff



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P R E F A C E

An International Summer Institute and Logic Colloquium (ISILC) was held in Kiel, Federal Republic of Germany from Wednesday, 17th July to Saturday, 3rd August 1974. The conference was organized by the Deutsche Vereinigung für mathematische Logik und Grundlagenforschung der exakten Wissenschaften and was sponsored by the Association for Symbolic Logic as the European Summer meeting of the ASL. The congress received financial support from: The International Union for History and Philosophy of Science/Division for Logic, Methodology and Philosophy of Science, from the Deutsche Forschungsgemeinschaft, from the Land Schleswig-Holstein, from the City of Kiel, and from the firms Siemens AG and AEG-Telefunken. A part of the conference was financed as "Tagung über Modelltheorie" by the Stiftung Volkswagenwerk. The University of Kiel provided the lecture hall and supported the conference in other helpful ways.

182 people from 17 countries took part in the conference. The Organizing Committee consisted of the undersigned from Heidelberg (G. H. M.) and Kiel (A. O. and K. P.).

The Summer Institute (17th July to 31st July) was mainly devoted to series of lectures, the Logic Colloquium (1st August to 3rd August) was devoted to invited lectures and contributed papers. S. Kochen dedicated his course to the memory of A. Robinson. The following courses were given during the Summer Institute (the first six courses were 8 hours each, the last two were 4-hour courses):

W. Boos (Iowa City): An outline of the theory of large cardinals.

J. Flum (Freiburg): First order logic and its extensions.

S. Kochen (Princeton): The model theory of local fields.

D. Prawitz (Oslo): General proof theory of first and higher order systems: Normalization of proofs.

W. Richter (Minneapolis): Inductive definitions.

D. Scott (Oxford): Lambda calculus: Models and applications.

J. E. Fenstad (Oslo): Computation theories: An axiomatic approach to recursion on general structures.

R. B. Jensen (Bonn): The solution of the gap-2 case of the two cardinal problems.

During the Summer Institute and the Logic Colloquium there were invited lectures by W. W. Boone (Urbana), W. Boos (Iowa City), F. Drake (Leeds), K. Gloede (Heidelberg), S. Grigorieff (Paris), C. Imbert (Paris), P. Krauss (New Paltz), F. von Kutschera (Regensburg), A. Mostowski (Warszawa), H. Rasiowa (Warszawa), and E. Specker (Zürich).

On Friday, 2nd August, there was a symposium on proof theory organized by J. Diller (Münster) to honour Kurt Schütte on the occasion of his 65th birthday with lectures by J. Diller (Münster), H. Luckhardt (Frankfurt), D. Prawitz (Oslo) and G. Takeuti (Urbana). In addition 28 papers were contributed to the congress, some of them are included in this volume (Adamowicz, Börger, Flannagan, Fittler).

These proceedings contain lecture notes of courses and invited and contributed papers as they were made available by the authors. Jensen and Richter decided to substitute another paper for the one actually read at the conference. The paper of Devlin is included since he originally agreed to give an invited lecture but finally was not able to attend the congress.

Papers on proof theory dedicated to Kurt Schütte are published as a separate volume of these proceedings edited by J. Diller and G. H. Müller.

G. H. Müller

A. Oberschelp

K. Potthoff

The first invited lecture of the Logic Colloquium was given by Professor Mostowski, president of the Division for Logic, Methodology and Philosophy of Science. When the editorial work on this volume was almost finished, the editors were dismayed to hear of the sudden and untimely death of Professor Mostowski. We want to express how deeply we admired and respected Professor Mostowski, both as a man and as a scholar who stimulated the science of logic for decades and who made so many deep contributions to it.

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