

University of Florida Special Year in Mathematical Logic
September 2006-June 2007
<http://www.math.ufl.edu/~jal/logicyear>
logicyear@clas.ufl.edu

Mathematical logic is entering a phase of increasingly intense conversation with other parts of mathematics. The events of the Special Year will be devoted to the exploration of various channels of communication between several fields of logic as well as the rest of the mathematical sciences.

Combinatorial Set Theory Workshop, Sep. 15-17, 2006

Organizers: András Hajnal, Jean Larson, Jindřich Zapletal

Speakers include: M. Džamonja, P. Komjáth, J. Nešetřil, S. Todorčević

Computability and Complexity in Analysis, Oct. 25-29, 2006

Organizers: Douglas Cenzer, Denis Hirschfeldt, Klaus Weihrauch

Speakers include: Rod Downey, Ker-I Ko, Anil Nerode

Model Theory and Computable Model Theory, Feb. 5-10, 2007

Organizers: Valentina Harizanov, David Marker, Carol Wood

Tutorial speakers: Julia Knight, Anand Pillay, Thomas Scanlon

Singular Cardinals and Inner Model Theory, Mar. 5-11, 2007

Organizers: Matthew Foreman, William Mitchell, John Steel

Annual Meeting of ASL, Mar. 10-13, 2007

Set Theory of the Reals Workshop, May 5-11, 2007

Organizers: Alexander Kechris, Stevo Todorčević, Jindřich Zapletal

Speakers include: Ilijas Farah, Justin Moore, Edward Odell

Various Special Lectures

Speakers include: M. Magidor, D. A. Martin, A. Nerode, G. Sacks, R. Soare

We invite applications for support for stays short and long. Special support is available for women, participants from the Southeast, and graduate students. The events of the Special Year and this advertisement are funded by NSF grant 0532644 as well as support from CLAS UF, RGP UF, and the Department of Mathematics, UF.

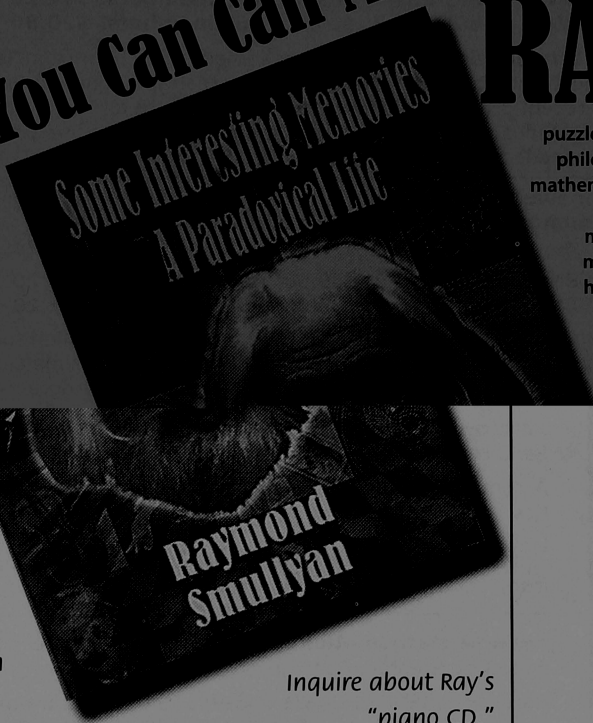
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New from the ASL and A K Peters

Model Theory of Fields, Lecture Notes in Logic 5 Second Edition
Daye Marker, Margit Messmer, Anand Pillay *Published by the ASL*

Hardcover; ISBN: 1-56881-281-7; \$59.00; **ASL members: \$47.20**
Paperback; ISBN: 1-56881-282-5; \$26.00; **ASL members: \$20.80**

The model theory of fields is a fascinating subject stretching from Tarski's work on the decidability of the theories of the real and complex fields to Hrushovski's recent proof of the Mordell-Lang conjecture for function fields. This volume provides an insightful introduction to this active area, concentrating on connections to stability theory.

Logicism Renewed, Lecture Notes in Logic 23
Logical Foundations for Mathematics and Computer Science
Paul C. Gilmore *Published by the ASL*

Hardcover; ISBN: 1-56881-275-2; \$69.00; **ASL members: \$55.20**
Paperback; ISBN: 1-56881-276-0; \$39.00; **ASL members: \$31.20**

Using Intensional Type Theory (ITT) the author provides a unified foundation for mathematics and computer science, yielding a much simpler foundation for recursion theory and the semantics of computer programs than that currently provided by category theory.

Intensionality, Lecture Notes in Logic 22
Edited by Reinhard Kahle *Published by the ASL*

Hardcover; ISBN: 1-56881-267-1; \$50.00; **ASL members: \$40.00**
Paperback; ISBN: 1-56881-268-X; \$35.00; **ASL members: \$28.00**

A compilation of articles about intensionality in philosophy, logic, linguistics, and mathematics. The articles approach the concept of Intensionality from different perspectives. This volume highlights the particular interdisciplinary nature of intensionality with articles spanning the areas of philosophy, linguistics, mathematics, and computer science.

Reverse Mathematics 2001, Lecture Notes in Logic 21
Edited by Stephen G. Simpson *Published by the ASL*

Hardcover; ISBN: 1-56881-263-9; \$70.00; **ASL members: \$56.00**
Paperback; ISBN: 1-56881-264-7; \$40.00; **ASL members: \$39.20**

Fundamentals of Mathematical Logic
Peter G. Hinman *Published by A K Peters*

Hardcover; ISBN: 1-56881-262-0; \$80.00; **ASL members: \$64.00**

Based on the author's more than 35 years of teaching experience, this introductory graduate text develops students' intuition by presenting complex ideas in the simplest context for which they make sense. The book is appropriate for use as a classroom text, for self-study, and as a reference on the state of modern logic.

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Classical Mathematical Logic

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RICHARD L. EPSTEIN

With contributions by Lesław W. Szczurba

In *Classical Mathematical Logic*, Richard L. Epstein relates the systems of mathematical logic to their original motivations to formalize reasoning in mathematics. The book also shows how mathematical logic can be used to formalize particular systems of mathematics. It sets out the formalization not only of arithmetic, but also of group theory, field theory, and linear orderings. These lead to the formalization of the real numbers and Euclidean plane geometry. The scope and limitations of modern logic are made clear in these formalizations.

The book provides detailed explanations of all proofs and the insights behind the proofs, as well as detailed and nontrivial examples and problems. The book has more than 550 exercises. It can be used in advanced undergraduate or graduate courses and for self-study and reference.

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New from the ASL and A K Peters

Logic in Tehran

Proceedings of the Workshop and Conference on Logic, Algebra, and Arithmetic, held October 18-22, 2003, Lecture Notes in Logic 26

Edited by Ali Enayat, Iraj Kalantari, Mojtaba Moniri

Published by the ASL

Hardcover; ISBN: 1-56881-295-7; \$70.00; **ASL members: \$56.00**

Paperback; ISBN: 1-56881-296-5; \$40.00; **ASL members: \$32.00**

This proceedings volume contains research papers in mathematical logic, especially in model theory and its applications to algebra and formal theories of arithmetic. Other papers address interpretability theory, computable analysis, modal logic, and the history of mathematical logic in Iran. The conference was held in Tehran, Iran, in October 2003, with the expressed purpose of bringing together researchers with connections to Iranian logicians and promoting further research in mathematical logic in Iran.

Nonstandard Methods and Applications in Mathematics

Lecture Notes in Logic 25

Published by the ASL

Edited by Nigel J. Cutland, Mauro Di Nasso, David A. Ross

Hardcover; ISBN: 1-56881-291-4; \$75.00; **ASL members: \$60.00**

Paperback; ISBN: 1-56881-292-2; \$35.00; **ASL members: \$28.00**

Nonstandard analysis is one of the great achievements of modern applied mathematical logic. In addition to the important philosophical achievement of providing a sound mathematical basis for using infinitesimals in analysis, the methodology is now well established as a tool for both research and teaching, and has become a fruitful field of investigation in its own right. This book is a collection of peer-reviewed papers solicited from some of the participants of this conference with the aim of providing something more timely than a textbook, but less ephemeral than a conventional proceedings. It contains both survey papers and research articles with special consideration for one, "Nonstandard analysis at pre-university level: naive magnitude analysis" in which the author discusses his experience teaching calculus through an infinitesimal approach.

Gödel's Theorem: An Incomplete Guide to Its Use and Abuse

Torkel Franzén

Published by A K Peters

Hardcover; ISBN: 1-56881-238-8; \$24.95; **ASL members: \$19.96**

"Franzén's books is accessible, well-written, and often funny . . ."

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Articles should be of broad interest and accessible to a wide audience of logicians. They may be purely expository, survey, or historical articles, or they may contain, in addition, new ideas or results or new approaches to old ones.

Communications should be announcements of important new results and ideas in any aspect of logic; they may be short papers in their final form or preliminary announcements (extended abstracts, position papers) of longer, full papers that will be published elsewhere. In any case, they should include, in addition to a description of the new results or ideas, enough history, background, and explanation to make the significance of the work apparent to a wide audience. *Communications* will be quickly refereed and published within six months of the submission of final versions.

Articles should be submitted to **Akihiro Kanamori**, *Department of Mathematics, Boston University, Boston, MA 02215, USA* (aki@math.bu.edu); *Communications* may be submitted to the Managing Editor **Rod Downey**, *Department of Mathematics, Victoria University of Wellington, Box 600, Wellington, New Zealand* (rod.downey@vuw.ac.nz); or to any of the other editors: **Matthew Foreman**, *Department of Mathematics, University of California, Irvine, CA 92697, USA* (mforeman@math.uci.edu); or **Phokion Kolaitis**, *Department of Computer Science, University of California Santa Cruz, Santa Cruz, CA 95064, USA* (kolaitis@cse.ucsc.edu); or **Manuel Lerman**, *Department of Mathematics, University of Connecticut, Storrs, CT 06269, USA* (mlerman@math.uconn.edu); or **Penelope Maddy**, *Department of Logic and Philosophy of Science, University of California, Irvine, CA 92697, USA* (pjmaddy@uci.edu); or **Katrin Tent**, *Fakultät für Mathematik, Universität Bielefeld, Postfach 100131, D-33501 Bielefeld, Germany* (ktent@math.uni-bielefeld.de).

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