

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

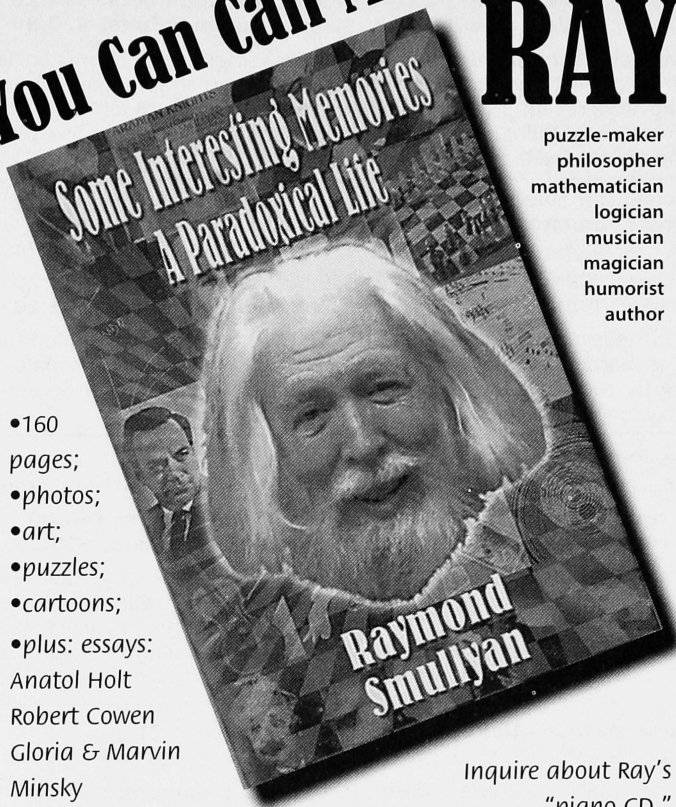
Speakers include: M. Magidor, D. A. Martin, A. Nerode, G. Sacks, R. Soare

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

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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*

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

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

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RICHARD L. EPSTEIN

With contributions by Lesław W. Szcerba

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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**

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