THE BULLETIN OF SYMBOLIC LOGIC
Volume 9, Number 4, Dec. 2003

NOTICES

- IN MEMORIAM: JEAN E. RUBIN. Professor Jean E. Rubin died on Oct. 25, 2002 in Lafayette, Indiana. Born on October 29, 1926 in New York City, she had lived in West Lafayette since joining the Purdue Mathematics Department in 1967. She received a B.S. from Queen's College in New York City in 1948, an M.A. from Columbia in 1949, and a Ph.D. from Stanford in 1955. She taught at Oregon and Michigan State before going to Purdue.

  Rubin was the author of more than forty papers and five books in set theory and questions related to the axiom of choice. She supervised two Ph.D. students, Judith M. Harper and Nicholas Backscheider. Rubin worked with a number of collaborators, including her husband, Herman, and her son, Arthur. A long and successful collaboration with Paul Howard dates back at least twenty-five years. Her three books, two jointly authored with Herman and the third with Paul Howard, have been standard references in the field.

- MACINTYRE AWARDED POLYA PRIZE. The London Mathematical Society has awarded its 2003 Polya Prize to Angus Macintyre. The Polya Prize is awarded two out of every three years in recognition of outstanding creativity in, imaginative exposition of, or distinguished contribution to, mathematics within the United Kingdom. The citation reads: "Professor Angus Macintyre, FRS, of the University of Edinburgh, is awarded the Polya Prize for his widely influential contributions to model theory and its applications. Over the last thirty years he has found many new applications of model theory in algebra, geometry, number theory, asymptotics and theoretical computer science. His work established a theory of p-adic semi-algebraic sets, and has since been widely used in p-adic contexts, for example to prove a conjecture of Serre on the rationality of Poincaré series. His papers on totally transcendental fields and on algebraic groups created new paradigms for research in these areas. His work on the first-order content of Weil cohomology has opened up new possibilities for applying model theory in algebraic geometry."

- CALL FOR PROPOSALS: 2005 AMS-ASL JOINT SPECIAL SESSION. The ASL Committee on Meetings in North America requests proposals for an AMS-ASL Joint Special Session to be held at the Joint Mathematics Meetings in Atlanta, Georgia, January 5–8, 2005. Proposals and requests for additional information should be be sent by email to the Committee Chair, Peter Cholak (email: `Peter.Cholak.1@nd.edu`). The deadline for receipt of proposals is January 15, 2004.

- ACCESS TO CURRENT JSL AND BSL FOR ASL MEMBERS VIA PROJECT EUCLID. Through the end of 2003, the ASL is providing free electronic access to the full-text of current issues of *The Bulletin of Symbolic Logic* and *The Journal of Symbolic Logic* via Project Euclid . Individual ASL members will continue to have access in future years; instructions will be published in the Newsletter and the Notices section of *The Bulletin of Symbolic Logic*.

- KURT GÖDEL: COLLECTED WORKS, VOLUMES IV AND V. The last two volumes of the collected works of Kurt Gödel, edited by Solomon Feferman, John W. Dawson, Warren Goldfarb, Charles Parsons, and Wilfrid Sieg, have now been published by Oxford University Press. ASL members are entitled to a 35% discount on all volumes. Visit `http://www.aslonline.org/books-godel.html` or contact the ASL Business Office for details.

- STUDENT TRAVEL AWARDS: THE 2004 ASL ANNUAL MEETING, 2004 ASL EUROPEAN SUMMER MEETING, AND OTHER ASL OR ASL-SPONSORED MEETINGS. The ASL will make available modest travel awards to graduate students in logic and (for the European Summer Meeting only) to recent Ph.D.'s so that they may attend the 2004 ASL Annual Meeting in Pittsburgh, Pennsylvania, or the 2004 ASL European Summer Meeting in Torino, Italy; see below for information about these meetings. Student members of the ASL also may apply for travel grants to other ASL or ASL-sponsored meetings. To be considered for a Travel Award, please (1) send a letter of application, and (2) ask your thesis supervisor to send a brief recommendation letter. The application letter should be brief (preferably one page) and should include: (1) your name; (2) your home institution; (3) your thesis supervisor's name; (4) a one-paragraph description of your studies and work in logic, *and, in the case of an ASL student member application to attend an ASL or ASL-sponsored meeting other than the Annual Meeting or European Summer Meeting*, a paragraph indicating why it is important to attend the meeting; (5) your estimate of the travel expenses you will incur; (6) (for citizens or residents of the USA) citizenship or visa status; and (7) (voluntary) indication of your gender and minority status. Women and members of minority groups are strongly encouraged to apply. In addition to funds provided by the ASL, the program of travel grants to the ASL Annual Meeting and the European Summer Meeting is supported by a grant from the US National Science Foundation; NSF funds may be awarded only to students at USA universities and to citizens and permanent residents of the USA. Air travel paid for using NSF funds must be on a US flag carrier. Application by email is encouraged; put "ASL travel application" in the subject line of your message.

For the 2004 ASL Annual Meeting, applications and recommendations should be received before the deadline of March 8, 2004, by the Program Chair: Sergei Artemov, Program in Comp. Sci., CUNY Graduate Ctr., 365 Fifth Ave. #4319, New York, NY 10016, USA; email: `SArtemov@gc.cuny.edu`.

For the 2004 ASL European Summer Meeting, applications and recommendations should be received before the deadline of April 1, 2004, by the Organizing Committee: LC2004, Department of Mathematics, University of Torino, via Carlo Alberto 10, 10123 Torino, Italy; email: `lc2004@unito.it`.

For ASL student member travel grants to other ASL or ASL-sponsored meetings, applications and recommendations should be received at least three months prior to the meeting at the ASL Business Office: ASL, Box 742, Vassar College, 124 Raymond Avenue, Poughkeepsie, New York 12604, USA; Fax: 1-845-437-7830; email: `asl@vassar.edu`. Decisions will be communicated at least two months prior to the meeting.

- 2003-04 ASL Winter Meeting (with Joint Mathematics Meetings). *January 9–10, 2004, Phoenix, Arizona.* This meeting will take place in conjunction with the Joint Mathematics Meetings, which will be held January 7–10, 2004. Invited speakers include: M. Foreman, S. Jackson, B. Kim, J. Knight, R. W. Knight, S. Lempp, Y. Peterzil, F. Point, L. Shulman, and S. Solecki. There will be an AMS-ASL Joint Special Session on Infinite Combinatorics and Inner Model Theory, organized by M. D. Foreman and M. Zeman. The members of the Program Committee are V. Harizanov, J. Steel, and C. Wood (Chair).

- 2004 ASL Spring Meeting (with APA). *April 22–25, 2004, Chicago, Illinois.* This meeting will be held jointly with the Annual Meeting of the Central Division of the American Philosophical Association. The program includes three invited sessions. The first, on Frege's Logic, will be chaired by M. Kremer and includes the speakers W. Goldfarb and E. Reck, and the commentator, P. Sullivan. The session on The Philosophy of Proof Theory, chaired by T. Bays, includes the speakers J. Avigad and M. Detlefsen, and the commentator, W. Tait. The third session, on Category Theory and Structuralism, will be chaired by S. Awodey, and includes the speakers G. Hellman and C. McLarty, and the commentator, D. Scott. The Program Committee members for the ASL meeting are: S. Awodey, T. Bays, and M. Kremer (Chair). Abstracts of contributed talks submitted by ASL members will be published in *The Bulletin of Symbolic Logic* if they satisfy the Rules for Abstracts (see below). Abstracts must be received by the deadline of January 15, 2004, at the ASL Business Office: ASL, Box 742, Vassar College, 124 Raymond Avenue, Poughkeepsie, New York 12604, USA; Fax: 1-845-437-7830; email: asl@vassar.edu.

- 2004 ASL Annual Meeting. *May 19–23, 2004, Carnegie Mellon University, Pittsburgh, Pennsylvania.* The members of the Program Committee are: S. Artemov (Chair), T. Bartoszyński, D. Hirschfeldt, M. C. Laskowski, and W. Sieg. The Local Organizing Committee members include J. Avigad (Chair), S. Awodey, L. Blum, J. Cummings, E. Schimmerling, and W. Sieg. The 2004 Mathematical Foundations of Programming Semantics (MFPS) Meeting, to begin on May 23, 2004, will co-locate with the ASL Annual Meeting. For more information about MFPS, visit http://www.math.tulane.edu/MFPS.html. Abstracts of contributed talks submitted by ASL members will be published in *The Bulletin of Symbolic Logic* if they satisfy the Rules for Abstracts (see below). Abstracts must be received by the deadline of February 10, 2004, at the ASL Business Office: ASL, Box 742, Vassar College, 124 Raymond Avenue, Poughkeepsie, New York 12604, USA; Fax: 1-845-437-7830; email: asl@vassar.edu.
- 2004 ASL European Summer Meeting (Logic Colloquium '04). *July 25–31, 2004, Torino, Italy.* Invited speakers include: J. T. Baldwin, T. Bartoszynski, A. Berarducci, A. Marcone, G. Mints, M. Moellerfeld, F. Stephan, G. Sundholm, M. Valeriote, and H. Woodin. Tutorials will be offered by by A. Kechris and S. Solecki (*Descriptive set theory, analysis and dynamical systems*), T. Scanlon (*Geometric stability theory*), R. Solomon (*Computable Algebra*), and R. Willard (*The past and the future of universal algebra*). Special sessions in proof theory, o-minimality, and universal algebra, and a panel discussion on philosophical and historical issues also will be held. The members of the Program Committee are: T. Arai, D. DeJongh, W. Goldfarb, G. Hjorth, S. Lempp, G. Lolli, D. Marker, D. Martin, R. McKenzie, W. Pohlers (Chair), W. Sieg, A. Sorbi, and A. Wilkie. The Local Organizing Committee includes: A. Andretta (Chair), S. Berardi, R. Camerlo, U. De Liguoro, M. Dezani, A. Marcone, N. Olivetti, and D. Zambella. Abstracts of contributed talks submitted by ASL members will be published in *The Bulletin of Symbolic Logic* if they satisfy the Rules for Abstracts (see below). Abstracts—hard copy or email—should be received before the deadline of April 16, 2004 at the official meeting address: LC2004, Department of Mathematics, University of Torino, via Carlo Alberto 10, 10123 Torino, Italy; email: lc2004@unito.it. For further information visit http://lc2004.unito.it.
- 2005 ASL Annual Meeting. *March 19–22, 2005, Stanford, California.* The members of the Local Organizing Committee include: A. Arana, S. Feferman, G. Mints, J. Mitchell, and R. Sommer.
- Rules for Abstracts. The rules for abstracts of contributed talks at ASL meetings (including those submitted "by title") may be found at the website http://www.aslonline.org/rules_abstracts.html . Please note that abstracts *must* follow the rules as set forth there; those which do not conform to the requirements will be returned immediately to the authors submitting them. Revised abstracts that follow the rules will be considered if they are received by the announced deadline.
- Latin American Symposium on Mathematical Logic (XIIth SLALM). *January 12-16, 2004, Universidad de Costa Rica, San José, Costa Rica.* Topics include: algebraic logic, history and philosophy of logic, model theory, philosophical logic, proof theory, recursion theory and algorithm complexity, and set theory. Invited speakers include: J. Bagaria, S. Buss, L. van den Dries, E. G. K. López Escobar, I. Nemeti, A. Prestel, S. Todorcevic, J. Väänänen, and A. Villaveces. The Program Committee members are: X. Caicedo, C. Di Prisco, J. I. Guier, R. Lewin, E. G. K. López Escobar, F. Miraglia, and M. Sagastume. The Organizing Committee consists of E. Chinchilla, M. Freund, J. I. Guier, and B. Montero.

As in previous symposia, a School in Mathematical Logic will precede the symposium on January 7–10, and offer the following short courses: Teoría de Modelos y Formas cuadráticas (M. Dickmann), Teoría de la Complejidad para Cálculo Numérico (F. Cucker), an Introduction to Determinacy (I. Neeman), and an Introduction to Proof Theory (L. C. Pereira). For further information, visit `http://www.vinv.ucr.ac.cr/slalm04/`. (ASL Sponsored Meeting.)

- 2004 Australasian Association for Logic Meeting. *January 17–18, 2004, Dunedin, New Zealand.* The principal organizer of this conference is H. van Ditmarsch (email: `hans@cs.otago.ac.nz`). The meeting will be held immediately prior to the Australasian Computer Science Week 2004 (ACSW 2004, January 18-22, 2004), which also will take place in Dunedin. For further information, visit `http://www.cs.otago.ac.nz/aal/`. (ASL Sponsored Meeting.)
- Third International Symposium on Foundations of Information and Knowledge Systems (FoIKS 2004). *February 17 - 20, 2004, Vienna, Austria.* The goal of the FoIKS symposia, which take place once every two years, is to bring together researchers working on the theoretical foundations of information and knowledge systems and to attract researchers working in mathematical fields such as discrete mathematics, combinatorics, logics, and finite model theory, who are interested in applying their theories to research on database and knowledge base theory. The Co-chairs of the Program Committee are D. Seipel and J.-M. Turull-Torres. T. Eiter is in charge of local organization. For further information, visit `http://foiks.massey.ac.nz/foiks04/`. (ASL Sponsored Meeting.)
- Takeuti Symposium: Symposium on Mathematical Logic '03. *December 17–19, 2003, Kobe, Japan.* The Symposium on Mathematical Logic is a series of meetings on mathematical logic in a broad sense, supported by the Division of Mathematical Logic of the Mathematical Society of Japan. This year's symposium will be held in honor of fifty years of Takeuti's Conjecture and Gaisi Takeuti's 77th birthday (the Age of Joy, in Japanese tradition). The provisional list of invited speakers includes: G. Takeuti, M. Yasugi, and M. Yasumoto. Contributed talks are invited in all areas of mathematical logic. The members of the Program Committee are: T. Arai, J. Brendle, Y. Kakuda (Co-chair), M. Okada, and H. Ono (Co-chair) For further information, visit `http://kurt.scitec.kobe-u.ac.jp/sml03/`.
- New Zealand Mathematics Research Institute (NZMRI) 2004 Summer Workshop. *January 3–10, 2004, Nelson, New Zealand.* The theme of this event is computational algebra, number theory, and geometry. For further information, visit `http://www.math.auckland.ac.nz/Conferences/2004/NZMRI/`.
- Fourth International Workshop on Computational Logic in Multi-Agent Systems (CLIMA IV). *January 6–7, 2004, Fort Lauderdale, Florida.* Multi-agent Systems are communities of problem-solving entities that can perceive and act upon their environments to achieve their individual goals as well as joint goals. Although commonly implemented by means of imperative languages, mainly for reasons of efficiency, the agent concept has recently increased its influence in the research and development of computational logic based systems. This meeting is co-located with the International Congress on Logic Programming and Nonmonotonic Reasoning (LPNMR-7; see below) and the Eighth International Symposium on Artificial Intelligence (AIMATH). For further information, visit `http://centria.di.fct.unl.pt/~jleite/climaIV/index.htm`.
- International Congress on Logic Programming and Nonmonotonic Reasoning (LPNMR-7). *January 6–8, 2004, Ft. Lauderdale, Florida.* This event is intended to facilitate interactions between researchers interested in the design and implementation of declarative logic programming languages and those who work in the areas of knowledge representation and nonmonotonic reasoning. The Program Committee Co-chairs are V. Lifschitz and

I. Niemela. This meeting is co-located with the Fourth International Workshop on Computational Logic in Multi-Agent Systems (CLIMA IV; see above) and the Eighth International Symposium on Artificial Intelligence (AIMATH). For further information, visit `http://www.tcs.hut.fi/Conf/lpnmr-7/`.

- NZIMA Logic and Computation Workshop. *January 11–16, 2004, Nelson, New Zealand.* Directly following the NZMRI 2004 Summer Workshop (see above), this event is part of the Logic and Computation Program funded by the New Zealand Institute of Mathematics and its Applications (NZIMA). Invited speakers include: S. Goncharov, I. Hodkinson, C. Jockusch, B. Khoussainov, D. Kozen, S. Lempp, and J. Miller. For further information, visit `http://www.cllc.vuw.ac.nz/LandC.shtml`.
- Australasian Computer Science Week. *January 18–22, 2004, Dunedin, New Zealand.* Australasian Computer Science Week is an international multi-conference event for computer science researchers. It is an annual event held in Australia and New Zealand that is sponsored by the Computer Science Association of Australasia. For further information, visit `http://www.cs.otago.ac.nz/acsw/`.
- Victoria International Conference 2004. *February 9–13, 2004, Wellington, New Zealand.* This event, hosted by Victoria University, is held in cooperation with the Israel Mathematical Union, the New Zealand Mathematical Society, and the New Zealand Institute of Mathematics and its Applications (NZIMA). The meeting will have several themes, but the program is being developed especially in conjunction with the six month Logic and Computation program of the NZIMA. Plenary speakers include: R. Downey, V. Jones, J. Makowsky, R. McLachlan, V. Palamodov, A. Nies, R. Raz, and H. Woodin. There also will be a special session in computational complexity. For further information, visit `http://www.mcs.vuw.ac.nz/~mathmeet`.
- Fifth International Workshop on Rewriting Logic and its Applications (WRLA 2004). *March 27–28, 2004, Barcelona, Spain.* Rewriting logic is a natural model of computation and an expressive semantic framework for concurrency, parallelism, communication and interaction. It can be used for specifying a wide range of systems and languages in various application fields. The aim of the workshop is to bring together researchers with a common interest in RL and its applications. The workshop will be held in conjunction with ETAPS 2004. For further information, visit `http://www.fdi.ucm.es/wrla2004`.
- European Joint Conferences on Theory and Practice of Software (ETAPS 2004). *March 27–April 4, 2004, Barcelona, Spain.* (ETAPS) is the primary European forum for academic and industrial researchers working on topics relating to Software Science. For further information, visit `http://www.lsi.upc.es/etaps04`.
- Seventh International Symposium on Functional and Logic Programming (FLOPS 2004). *April 7–9, 2004, Nara, Japan.* This event is a forum for research on all issues concerning functional programming and logic programming. Invited speakers include: M. Hagiya, C. Schuermann, and P. Selinger. For further information, visit `http://logic.is.tsukuba.ac.jp/FLOPS2004/`.
- Sixteenth European Summer School in Logic, Language and Information (ESSLLI-2004). *August 9–21, 2004, Nancy, France.* The main focus of the European Summer Schools in Logic, Language and Information is on the interface between linguistics, logic and computation. Foundational, introductory and advanced courses together with workshops cover a wide variety of topics within the three areas of interest: Language and Computation, Language and Logic, and Logic and Computation. ESSLLI-2004 is organized under the auspices of the European Association for Logic, Language and Information (FoLLI). For further information about ESSLLI-2004, visit `http://www.esslli.org/2004`; for further information about FoLLI, see `http://www.folli.org`.