THE BULLETIN OF SYMBOLIC LOGIC
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NOTICES

- IN MEMORIAM: Ian Hinckfuss died on October 21, 1997, in Brisbane, Australia, at the age of 65. He was a member of the Department of Philosophy at the University of Queensland since 1966. Prof. Hinckfuss was active as a logician, metaphysician, and philosopher of language and of science.

- ASL ELECTION. At the end of 1997 the ASL elected a President and Vice President, as well as two members of the Executive Committee of the Council and two members of the Council. All terms are for three years beginning January 1, 1998. Donald A. Martin (University of California, Los Angeles) was elected President and Jon Barwise (Indiana University) Vice President. Andre Scedrov (University of Pennsylvania) and Carol Wood (Wesleyan University) were elected to the Executive Committee, and Michael Hallett (McGill University) and Jouko A. Väänänen (University of Helsinki) were elected to the Council. The 1997 Nominating Committee consisted of D. van Dalen, E. Grädel, W. Hodges, D. Lascar, Y. Moschovakis, Chair, C. Parsons, and T. Slaman.

- 1998 CAROL KARP PRIZE. The recipient of the 1998 Karp Prize of the Association for Symbolic Logic is Ehud Hrushovski of the Hebrew University, Jerusalem, for his work on the Mordell-Lang Conjecture. This award was made by the Association on recommendation of the ASL Committee on Prizes and Awards (Warren Goldfarb, Manuel Lerman, Chair, Alain Louveau, Pavel Pudlák, and Alex Wilkie). Initiated in 1978, this prize is given every five years for "a connected body of research, most of which has been completed in the time since the previous prize was awarded." Previous recipients were: Robert Vaught (1978), Saharon Shelah (1983), Donald A. Martin, John Steel, and W. Hugh Woodin (1988), and Ehud Hrushovski and Alex Wilkie (1993).

- THE 1997 EDUCOM MEDAL was awarded to Jon Barwise and John Etchemendy at Educom'97, held October 28–31, 1997, in Minneapolis, Minnesota. Now in its third year, the Educom Medal Awards Program seeks to recognize and reward outstanding educators, professionals, and other individuals who have made significant contributions to the improvement of undergraduate education through innovative uses of information technology. Barwise and Etchemendy are credited with leadership of development teams working on three computer programs that have advanced the teaching of formal logic. *Turing's World* enables students to more easily build and run complex Turing Machines. *Tarski's World* allows students to construct and evaluate symbolic sentences describing geometric worlds and offers a remarkable visual and intuitive approach to understanding symbolization and semantics. *Hyperproof* uses a style of reasoning about logic problems that is arguably more natural than natural deduction. Barwise is College of Arts and Sciences Professor of Philosophy, Mathematics, and Computer Science at Indiana University. Etchemendy is Professor of Philosophy and Symbolic Systems and Chairman of the Commission on Technology in Teaching and Learning at Stanford University. See `http://www.iuinfo.indiana.edu/homepages/1114/text/barwise.htm` and `http://www-csli.stanford.edu/hp/index.html` for more information.

- PERSPECTIVES IN MATHEMATICAL LOGIC. Two books in this series have recently been published. *Set Theory* by Thomas Jech is a Second Corrected Edition of this well-known standard reference in the subject (ISBN 3-540-63048-1; $109.00). Also, a Second Corrected Printing of *The Higher Infinite* by Akihiro Kanamori is being published (ISBN 3-540-57071-3; $133.95). ASL members may receive a 30% discount on all books in this series by sending an order to the ASL office (Association for Symbolic Logic, Mathematics Department, University of Illinois, 1409 West Green Street, Urbana, Illinois 61801). Send a check on a US bank in US funds payable to Springer-Verlag or provide MasterCard or VISA credit card information. Please add $3.00 postage and handling for the first book and $1.00 for each additional book. A 20% discount on all books in the *Lecture Notes in Logic* series may be obtained by ASL members in the same way. Information about Springer-Verlag books is available at their Website: `http://www.springer-ny.com`.

- RULES FOR ABSTRACTS: Abstracts of contributed talks at ASL meetings are limited to 300 words (about three quarters of a page in the standard, 11pt LaTeX article style), including the title and other heading material and the references. They must be submitted in hard copy or (at the Program Chair's discretion) electronically *in PostScript format*; TeX-files, MS-Word-files, etc. will not be accepted. To ensure accurate and timely typesetting: (1) Each abstract submission must include the complete address of at least one author, including an email address, or a statement that no email address is available. (2) Abstracts may not include drawings or footnotes. (3) The references must be complete: author, title, full name of journal, year, volume, page numbers; for a book, complete publisher data. Typesetting is done immediately after the submission deadline, so abstracts should be in final form when they are sent to the program chair. A typeset booklet containing the abstracts will be distributed to participants at the meeting. Galley proofs are given to authors at the time of the meeting or before, and must be corrected, approved, and returned within a few days of receipt; only corrections to typesetting errors can be made in galley proofs. Abstracts are published as part of the meeting report in *The Bulletin of Symbolic Logic* only if the author is a member of the ASL at the time the report is sent for publication.
- STUDENT TRAVEL GRANTS: THE 1997–98 ANNUAL MEETING (DEADLINE EXTENDED) AND THE 1998 EUROPEAN SUMMER MEETING. The ASL will make available modest travel grants to graduate students in logic and (for the European Summer Meeting only) to recent PhDs, so that they may attend the 1997–98 ASL Annual Meeting in Toronto, Canada, or the 1998 ASL European Summer Meeting in Prague, Czech Republic; see below for information about these meetings. To be considered for a Travel Grant, 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 (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, (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. Only modest grants will be possible, partially covering travel costs and perhaps some of the living expenses during the meeting. Women and members of minority groups are strongly encouraged to apply. In addition to funds provided by the ASL, this program of travel grants is now supported by a grant from the US National Science Foundation; NSF funds may be awarded only to citizens and permanent residents of the USA. For the 1997–98 ASL Annual Meeting, applications should be sent by the deadline of March 30, 1998, to the Program Chair: Bradd Hart, Department of Mathematics, McMaster University, Hamilton, Ontario, Canada L8S 4K1; email: `hartb@mcmaster.ca`. Note that this deadline has been extended by three weeks. For the 1998 ASL European Summer Meeting, they should be sent by the deadline of April 6, 1998, to the Program Chair: Sam Buss, Department of Mathematics, University of California at San Diego, La Jolla, California 92093-0112; email: `sbuss@ucsd.edu`. For both meetings, application by email is encouraged.
- THE 1997–98 ASL ANNUAL MEETING. *May 22–25, 1998, University of Toronto, Canada.* This meeting will begin early on Friday, May 22, and will end at noon on Monday, May 25. The program will include the annual Gödel Lecture and the awarding of the Karp Prize. Invited speakers include W. Goldfarb, A. Myasnikov, T. Slaman, R. Sommer, P. Speissegger,

S. Todorčevic, S. Wainer, and H. Woodin. A tutorial on complexity theory and logic will be given by S. Cook. There will be special sessions in model theory and set theory. Speakers for the model theory session include D. Haskell, J. Iovino, S. Kuhlmann, C. Miller, R. Willard, and C. Wood. Speakers for the set theory session include H. Becker, D. Burke, R. Dougherty, M. Foreman, S. Jackson, and E. Schimmerling. Contributed talks in all areas of logic are invited. The Program Committee consists of T. Carlson, K. Compton, S. Friedman, B. Hart, Chair, A. Nies, and A. Urquhart. The Chair of the Local Organizing Committee is A. Urquhart. For further information contact the Program Chair: Bradd Hart, Department of Mathematics, McMaster University, Hamilton, Ontario, Canada L8S 4K1; email: `hartb@mcmaster.ca`.

- The 1998 ASL European Summer Meeting (Logic Colloquium '98). *August 9–16, 1998, Prague, Czech Republic.* The lectures will be given from Monday through Saturday, with one free afternoon reserved for a conference excursion. The meeting is organized by the Mathematical Institute and the Institute of Computer Science of the Academy of Sciences of the Czech Republic, in cooperation with the Faculty of Mathematics and Physics and the Philosophical Faculty of the Charles University, and with the University of Economics. The honorary chairman of the meeting is Professor Petr Vopěnka. The main topics of the meeting are proof theory, model theory, set theory, recursion theory, logic in computer science, and history and philosophy of logic. Invited plenary speakers include J. van Benthem, S. B. Cooper, T. Coquand, A. Ekert, L. Fortnow, B. Hart, G. Hjorth, T. Jech, C. G. Jockusch, P. Komjáth, L. M. Lipshitz, Y. Palyutin, A. A. Razborov, A. G. Setzer, T. Strahm, G. Takeuti, and P. Welch. Tutorials will be given on several topics including fuzzy logic (P. Hájek), complexity and bounded arithmetic (J. Krajíček), and the elementary theory of free groups (Z. Sela). There will be special sessions in computability theory (A. Kučera and R. Shore), model theory (L. van den Dries and A. Macintyre), set theory (L. Bukovsky and B. Velickovic), philosophical logic (R. Parikh), and proof theory (Wilfried Buchholz). Contributed talks are invited from all fields of logic. The Program Committee consists of K. Ambos-Spies, L. Bukovský, S. Buss, Chair, P. Clote, S. Cook, L. van den Dries, P. Hájek, A. Macintyre, Y. Moschovakis, D. Mundici, R. Parikh, P. Pudlák, J.-P. Ressayre, S. Wainer, and B. Zilber. The Organizing Committee consists of B. Balcar, P. Hájek, Chair, P. Jirku, J. Krajíček, A. Kučera, P. Pudlák, J. Sgall, P. Štěpánek, and M. Zeithamlová (Action M). Local arrangements including registration will be handled by Agentura Action M, Vršovická 68, 101 00 Praha 10, Czech Republic; telephone: +420-2-6731 2333; Fax: +420-2-6731 0503. Further information about the meeting may be obtained from: Logic Colloquium 1998, Mathematical Institute AVČR, Žitná 25, CZ-11567 Praha 1, Czech Republic; telephone: +420-2-222 11 631 (operator, ask for Jiri Sgall or Pavel Pudlák); WWW: `http://www.math.cas.cz/~lc98/`; email: `lc98@math.cas.cz`. Abstracts of contributed papers (see Rules for Abstracts above) should be sent by the deadline of April 6, 1998, to the Logic Colloquium 1998 address above. Participants are encouraged to submit their abstracts by email and are requested to send both a PostScript version (for the meeting booklet) and a plain text version (to be posted at the Website).
- Thirteenth Annual IEEE Symposium on Logic in Computer Science (LICS '98). *June 21–24, 1998, Indiana University Conference Center in Indianapolis, Indiana.* Invited speakers include D. van Dalen, R. Needham, and M. Vardi. There will be tutorials in Logics of Dynamic Processes (J. van Benthem) and Automata and Logic (W. Thomas). The LICS meeting will be preceded by workshops on Probabilistic Methods in Verification, and Real Number Computation, and followed by workshops on Formal Methods and Security Protocols, and Logic and Diagrammatic Information. For further information contact the LICS Publicity Chair: Leonid Libkin, Bell Labs, Lucent Technologies, 600-700 Mountain Avenue, Murray Hill, NJ 07974; email: `lics-request@research.bell-labs.com`; also

see the LICS Website: http://www.bell-labs.com/topic/conferences/lics/. (ASL sponsored meeting)

- XI LATIN AMERICAN SYMPOSIUM ON MATHEMATICAL LOGIC. *July 6–10, 1998, Universidad de Los Andes, Merida, Venezuela.* The program committee includes X. Caicedo, W. Carnielli, R. Cignoli, C. Di Prisco, I. D'Ottaviano, S. Friedman, R. Lewin, J. Llopis, E. G. K. Lopez-Escobar, D. Mundici, and C. Uzcategui. The local organizing committee includes A. Arratia, M. Carrasco, C. Di Prisco, J. Llopis, G. Mendez, C. Uzcategui, and E. Tahhan. Four introductory courses will be held July 1–4 preceding the symposium: D. Mundici, Algebra of Logics; I. Stewart, Finite Model Theory; J. Bagaria, The Continuum; and W. Marek, Computations with Non-Monotonic Logics. The deadline for submitting abstracts is May 15, 1998. The meeting registration fee will be US $50; a check payable to Asociacion Matematica Venezolana should be sent before June 1, 1998, to Professor C. Uzcategui, Departamento de Matematica, Facultad de Ciencias, Universidad de Los Andes, Marida 5101, Venezuela. Blocks of rooms will be reserved in the following hotels: Hotel Park (****): $48 (single), $66 (double); Hotel La Terraza (***): $33 (single), $41 (double); Hotel Don Juan (***): $30 (single), $40 (double). For further information contact by email: slalm98@ciens.ula.ve. (ASL sponsored meeting)
- 5TH WORKSHOP ON LOGIC, LANGUAGE, INFORMATION AND COMPUTATION (WoLLIC'98). *July 28–31, 1998, Sao Paulo, Brazil.* This workshop is hosted by Universidade de Sao Paulo, and will take place at the Mathematics and Statistics Institute. Invited speakers include S. Artemov, S. Buss, E. Clarke, H. D. Ebbinghaus, M. Fourman, H. Kamp, V. de Paiva, M. de Rijke, and G. Sambin. Tutorials will be held on July 28. The program committee includes A. Blass, I. D'Ottaviano, J.M. Dunn, W. Hodges, F. Miraglia, L.C. Pereira, A. Pitts, and A. Pnueli. Contributions are invited in the form of short papers in all areas of logic. Papers must be received by April 3, 1998, by one of the Co-Chairs of the Organizing Committee (R. de Queiroz, Departamento de Informatica, Univ. Federal de Pernambuco, CP 7851, 50732-970 Recife, PE, Brazil; telephone: +55 81 271 8430; Fax: +55 81 271 8438; email: ruy@di.ufpe.br; or M. Finger, Departamento de Ciencia da Computacao, Instituto de Matematica e Estatistica, Universidade de Sao Paulo, Rua do Matao 1010, 05508-900 Sao Paulo, SP, Brazil; telephone: +55 11 818 6287; Fax: +55 11 818 6134; email: mfinger@ime.usp.br). Further information may be obtained on the workshop Webpage: http://www.ime.usp.br/~wollic. (ASL sponsored meeting)
- CALENDAR OF OTHER MEETINGS. See also http://www.math.uiuc.edu/~asl/.

March 28–30, 1998. Seventh Annual Boise Extravaganza in Set Theory (BEST). Boise State University, Idaho. Invited speakers are M. Dzamonja, S. Fuchino, H. Woodin, and S. Todorcević. Contact: T. Bartoszynski; email: tomek@math.idbsu.edu.

April 13–15, 1998. Hybrid Systems: Computation and Control. Berkeley, California. T. A. Henzinger, EECS Department, Cory Hall, University of California, Berkeley, California 94720-1770.

April 27–29, 1998. 3rd Conference on Real Numbers and Computers (RNC3). Paris, France. For information: http://www-anp.lip6.fr/RNC3/; J.-M. Chesneaux, Laboratoire LIP6, Universite Pierre et Marie Curie, 4 place Jussieu, 75252 Paris Cedex 05, France.

May 1–4, 1998. Workshop: Modern Mathematical Thought II: Historical and Philosophical Approaches. University of Pittsburgh, Pennsylvania. For information: http://www.pitt.edu/~pittcntr; Jim Lennox at pittcntr+@pitt.edu or by Fax at 412-624-3895.

May 31, 1998. Workshop on Constraint Databases (CDB'98). Seattle, Washington. This workshop is in conjunction with ACM SIGMOD/PODS '98. For information: http://www.cs.bell-labs.com/~libkin/cdb98/.

June 15–19, 1998. 8th International Workshop on Logic-Based Program Synthesis and Transformation (LOPSTR'98). Manchester, United Kingdom. For information: http:/

/www.cs.man.ac.uk/~kung-kiu/lopstr98; Pierre Flener (LOPSTR'98), Department of Computer Science, Bilkent University, Bilkent University, 06533 Ankara, Turkey; telephone: +90 312 266 4000 ext. 1450; Fax: +90 312 266 4126; email: lopstr98@cs.bilkent.edu.tr or pf@cs.bilkent.edu.tr.

June 22–26, 1998. Groups of Finite Morley Rank. Anogia, Crete. For information: S. Papadopolou, Department of Mathematics, University of Crete, Heraklion, Crete, Greece; Fax: +30 81-234516; email: souzana@math.uch.gr; or A. Borovik, Department of Mathematics, UMIST, P.O. Box 88, Manchester M60 1QD, England; Fax: +44 161 200 3669; email: Alexandre.Borovik@umist.ac.uk.

June 23–26, 1998. 12th Annual International Symposium – LOGICA'98. Liblice Chateau (Central Bohemia), Czech Republic. For information: P. Kolar or V. Svoboda, Institute of Philosophy, ASCR, Jilská; 1, 110 00 Prague 1, Czech Republic; Fax: +4202 242-202-57; email: logica@mbox.cesnet.cz; WWW: http://147.231.53.40/Logica/logica98.htm.

June 28–July 2, 1998. Conference on Computer-Aided Verification (CAV'98). Vancouver, British Columbia, Canada. For information: http://www.cs.ubc.ca/spider/ajh/cav98.html.

July 5–10, 1998. Fifteenth International Conference on Automated Deduction (CADE-15). Lindau, Germany. For information: http://cade-15.loria.fr/; C. and H. Kirchner, LORIA, INRIA, and CNRS, 615 Rue du Jardin Botanique, B.P. 101, F-54602 Villers-les-Nancy CEDEX, France; telephone: +33 3 83 59 30 11 or 12; Fax: +33 3 83 27 83 19; email: cade-15@loria.fr.

July 13–17, 1998. International Colloquium on Automata, Languages, and Programming (ICALP'98). BRICS, Aalborg, Denmark. For information: http://www.cs.auc.dk/ical98/.

August 17–21, 1998. Workshop on Probabilistic Logic and Randomized Computation. Saarbrücken, Germany. This is part of ESSLLI-98. For information: http://www.cs.city.ac.uk/~adp/esslli98.html.

August 22–28, 1998. Annual Conference of the European Association for Computer Science Logic (CSL '98). Brno, Czech Republic. For information: WWW: http://www.dbai.tuwien.ac.at/CSL98/subm.html; email: csl98@dbai.tuwien.ac.at.

August 24–28, 1998. Workshop on Mutual Knowledge, Common Ground, and Public Information. Saarbrücken, Germany. This is part of ESSLLI-98. For information: http://www.dcs.warwick.ac.uk/~esslli98/workshops.html.

September 7–9, 1998. First International Workshop on Labelled Deduction (LD'98). Institut für Informatik, Freiburg, Germany. For information: LD'98, c/o L. Vigano, Institut für Informatik, Universität Freiburg, Am Flughafen 17, 79110 Freiburg, Germany; telephone: +49 (761) 203-8243; Fax: +49 (761) 203-8242; email: ld98@informatik.uni-freiburg.de.

September 8–11, 1998. 9th International Conference on Concurrency Theory (CONCUR'98). Nice, France. Contact: Concur'98, INRIA Sophia-Antipolis, BP 93, F-06902 Sophia-Antipolis Cedex, France; email: concur98@sophia.inria.fr; WWW: http://www.inria.fr/concur98/.

September 28–October 1, 1998. Eleventh International Conference on Theorem Proving in Higher Order Logics (TPHOLs98). The Australian National University, Canberra, Australia. For information: J. Grundy or M. Newey, Department of Computer Science, The Australian National University, Canberra, ACT 0200, Australia; Fax: +61 (0)2 6249 0010; email: TPHOLs98@cs.anu.edu.au; WWW: http://cs.anu.edu.au/TPHOLs98/.

October 2–4, 1998. Midwest Conference on the History of Mathematics. Iowa State University, Ames, Iowa. For information: J. Murdock, Mathematics Department, Iowa State

University, Ames, Iowa 50011; email: jmurdock@iastate.edu; WWW: http://www.math.iastate.edu/jmurdock/conference.html.
October 2–4, 1998. Second International Workshop on the Frontiers of Combining Systems (FroCoS'98). Amsterdam, Netherlands. For information: http://www.wins.uva.nl/~mdr/FroCoS98.
October 5–9, 1998. Workshop on Foundations of Models and Languages for Data and Objects (FMLDO'98). Ostfriesland, Germany. For information: http://www.in.tu-clausthal.de/~ripke/workshop98.html.
October 16–18, 1998. Advances in Modal Logic'98. Uppsala University, Uppsala, Sweden. Submission deadline: June 1, 1998. Email contact: Krister.Segerberg@filosofi.uu.se; WWW: http://www.wins.uva.nl/~mdr/AiML.
July 2–10, 1999. 1999 Federated Logic Conference (FLoC'99). Trento, Italy. Participating conferences: Conference on Automated Deduction (CADE), Conference on Computer-Aided Verification (CAV), IEEE Symposium on Logic in Computer Science (LICS), and Conference on Rewriting Techniques and Applications (RTA). Pre-conference workshops June 29–July 1, and post-conference workshops July 11–12. WWW: http://www.cs.bell-labs.com/~libkin/floc99.
August 20–26, 1999. 11th International Congress of Logic, Methodology and Philosophy of Science. Cracow, Poland. Submission deadline: February 1, 1999. Further information: Organizing Committee LMPS 99, Institute of Philosophy, Jagiellonian University, ul. Grodzka 52, 31-044 Cracow, Poland; telephone/Fax: +48 12 4224916; email: lmps99@jetta.if.uj.edu.pl; WWW: http://www.uj.edu.pl/Phils/congress.

- OTHER ANNOUNCEMENTS. See also http://www.math.uiuc.edu/~asl/.
Journal of Symbolic Computation: Special Issue on Advances in First-Order Theorem Proving. Guest editors: M. P. Bonacina and U. Furbach. All submissions will be subject to the standard review procedure and must be received by June 1, 1998. Further information: http://www.uni-koblenz.de/ag-ki/JSC/.
Journal of Intelligent and Fuzzy Systems. A complimentary copy is available by contacting the publisher: IOS Press, Van Diemenstraat 94, 1013 CN Amsterdam, Holland. The annual subscription price (four issues) is $105.00.
Journal of Symbolic Computation: Special Issue on Schemas. The guest editors of this special issue are P. Flener, K.-K. Lau, and W. Bibel. The submission deadline is September 15, 1998. Further information from: http://www.cs.bilkent.edu.tr/~pf/jsc or http://www.cs.man.ac.uk/~kung-kiu/jsc.
Research Positions at BRICS Research Centre and International PhD School. There are several postdoctoral positions starting in 1998. Applications may be sent by email: BRICS@brics.dk, from which further information is available.

- **New Books.** See also http://www.math.uiuc.edu/~asl/.
Goal-Directed Reasoning in Clausal Logic with Equality. Author: M. Moser. CS Press, Germany (1997, ISBN 3-931757-02-1).
Information Flow: The Logic of Distributed Systems. Authors Jon Barwise and Jerry Seligman address the definition and place of information in society. Cambridge University Press (1997, ISBN 0-521-58386-1, $39.95) For ordering information, please contact K. Watrud at kwatrud@cup.org.
The Action-as-Implication Paradigm. Author: B. Fronhoefer. This book deals with a logic underlying the idea of formalizing actions as implications. CS Press, Germany (1997, ISBN 3-931757-91-9).