THE BULLETIN OF SYMBOLIC LOGIC
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NOTICES

- THE 1998 ASL ELECTION. At the end of 1998 the ASL elected a Secretary-Treasurer, 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, 1999. C. Ward Henson (University of Illinois at Urbana-Champaign) was elected for another term as Secretary-Treasurer. Steffen Lempp (University of Wisconsin, Madison) and John Steel (University of California, Berkeley) were elected to the Executive Committee, and Jan Krajíček (Academy of Sciences of the Czech Republic) and Hajnal Andréka (Hungarian Academy of Sciences) were elected to the Council. The 1998 Nominating Committee consisted of Johan van Benthem, Petr Hájek, Vann McGee, David Marker, Theodore A. Slaman, Chair, and W. Hugh Woodin.
- STUDENT TRAVEL GRANTS: THE 1999 EUROPEAN SUMMER MEETING. The ASL will make available modest travel grants to graduate students in logic and to recent PhDs, so that they may attend the 1999 ASL European Summer Meeting in Utrecht, The Netherlands; see below for information about this meeting. 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 supported by a grant from the US National Science Foundation; NSF funds may be awarded only to students at USA universities as well as citizens and permanent residents of the USA. Applications and recommendation letters should be sent by the deadline of April 2, 1999, to the Program Chair: Wilfrid Hodges, School of Mathematical Sciences, Queen Mary and Westfield College, Mile End Rd., London E1 4NS, England; email: `w.hodges@qmw.ac.uk`. Application by email is encouraged.
- NEW PERSPECTIVES BOOK: SUBSYSTEMS OF SECOND ORDER ARITHMETIC. Author: Stephen G. Simpson. (Perspectives in Mathematical Logic, Springer-Verlag, 1999, ISBN 3-540-64882-8, 458 pages, US$59.95) This book is part of the Perspectives in Mathematical Logic series, published in cooperation with the Association for Symbolic Logic, which appoints the Editorial Board. Members of the Association may purchase the book from Springer-Verlag at a 30% discount; contact the ASL business office for details (`asl@math.uiuc.edu`). Further information about the book may be found on the Web at: `http://www.math.psu.edu/simpson/sosoa/`.
- OMEGA-BIBLIOGRAPHY OF MATHEMATICAL LOGIC. This Bibliography is out of print, and the publisher, Springer-Verlag, has decided not to keep it in stock any longer. This is mainly because a freely accessible electronic version of the Bibliography will be made available by the Research Center for Mathematical Logic of the Heidelberger Akademie der Wissenschaften at the University of Kaiserslautern (you are invited to visit the Logic-Server at `http://www-logic.uni-kl.de`). However, the remaining volumes of the Bibliography have been taken over by the Research Center for Mathematical Logic and are offered to the scientific community at a very reduced price, basically covering only postage and handling. This amounts to a reduction of approximately 90% compared to what was charged most recently

by Springer-Verlag. The exact prices in the current offer are as follows: Europe: individual volume: DM 40.00; set price vols. 2-6: DM 170.00; set price vols. 1-6: DM 200.00. Outside Europe: individual volume: US$30.00; set price vols. 2-6: US$125.00; set price vols. 1-6: US$150.00.

These prices include all shipping (surface mail) and handling fees. The volumes will be sold on a first-come-first-served basis as long as they are available. Please note that for some volumes, especially for volume I, there are only a few copies left. Checks (eurocheques as well as checks drawn on banks in the US) and international money orders are accepted, but it is regretably not possible to handle payments by credit card. Orders together with payment should be sent to: Heidelberger Akademie der Wissenschaften; Research Center for Mathematical Logic; Dr. Wolfgang Lenski; University of Kaiserslautern; PO Box 3049; D-67653 Kaiserslautern, Germany. Please note that it is impossible to handle orders which are not accompanied by payment. However, you may arrange to have some volumes reserved for you by sending e-mail to `logic@informatik.uni-kl.de`; reserved books will be held for one month, at which time payment is due. For further details see the Web page at `http://www-logic.uni-kl.de/documentation.html`.

- 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 electronically *in PostScript format*; TeX files, MS-Word files, etc. will not be accepted. For ASL meetings in North America, at least one author of each contributed abstract must be an ASL member; this requirement does not apply to the ASL European Summer Meeting. 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 submitted. 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.

- THE 1999 ASL SPRING MEETING. *May 7–8, 1999, New Orleans, Louisiana.* This meeting will be held in conjunction with the annual meeting of the Central Division of the American Philosophical Association, May 5–8, 1999. The Program Committee for the ASL meeting includes Graeme Forbes, Co-Chair, Philip Kremer, and Charles Parsons, Co-Chair. The program will include a panel on Applications of Non-standard Consequence Relations, with speakers Gerhard Schurz and Ken Gemes. Other invited speakers are Kit Fine and Neil Tennant. The APA meeting will include a Symposium on Frege and Russell, with speakers Peter Hylton and Ian Rumfitt.

- THE 1999 ASL EUROPEAN SUMMER MEETING (LOGIC COLLOQUIUM '99). *August 1–6, 1999, Utrecht, The Netherlands.* The program will represent logic from a wide perspective. A featured topic will be computational logic, broadly conceived. Tutorials will be offered by G. Hjorth, J. Klop, and I. Moerdijk. Invited speakers include S. Abramsky, L. Beklemishev, D. Haskell, D. Miller, A. Morozov, J. Rutten, P. Speissegger, S. Todorčević, and A. Weiermann. Abstracts of contributed talks must be submitted by the deadline of April 2, 1999, to the Program Chair: Wilfrid Hodges, School of Mathematical Sciences, Queen Mary and Westfield College, Mile End Rd., London E1 4NS, England; email: `w.hodges@qmw.ac.uk`.

Abstracts must satisfy the Rules for Abstracts given above. The Program Committee includes E. Barendsen, J. van Eijck, S. Goncharov, W. Hodges, Chair, D. de Jongh, A. Kechris, P. Koepke, M. Lerman, D. Marker, J. van Oosten, A. Pitts, and A. Visser. The Local Organizing Committee includes J. van Eijck, Chair, M. de Rijke, Y. Venema, P. Dekker, and P. Blok. Those interested in participating in this ASL meeting should note that ESSLLI-99 will take place in Utrecht during the two following weeks, August 8–20, 1999.

- THE 1999-2000 ASL WINTER MEETING. *January 21–22, 2000, Washington, DC.* It is anticipated that this meeting will be held in conjunction with the annual meeting of the American Mathematical Society, January 19–22, 2000. The Program Committee of the ASL meeting consists of V. Harizanov, J. Larson, Chair, C. Laskowski, C. Posy, and M. Scheepers. Abstracts of contributed talks from ASL members should be sent by the deadline of October 1, 1999, to the ASL office (asl@math.uiuc.edu; ASL, 1409 W. Green Street, Urbana, Illinois 61801). Abstracts must satisfy the Rules for Abstracts given above.
- THE 1999–2000 ASL ANNUAL MEETING. *June 3–7, 2000, University of Illinois at Urbana-Champaign.* The Program Committee consists of J. Avigad, M. Davis, Y. Gurevich, M. Hallett, D. Haskell, G. Hjorth, C. Jockusch, Chair, A. Kanamori, H. J. Keisler, V. McGee, T. Pitassi, S. Starchenko, and W. Tait. The Local Organizing Committee consists of L. van den Dries, C. W. Henson, C. G. Jockusch, Jr., and A. Pillay. The Program Committee welcomes suggestions for speakers and topics, which may be sent to the Program Chair: Carl G. Jockusch, Jr., Mathematics Department, University of Illinois at Urbana-Champaign, 1409 West Green Street, Urbana, Illinois 61801; email: jockusch@math.uiuc.edu.
- THE 2000 ASL EUROPEAN SUMMER MEETING (LOGIC COLLOQUIUM 2000). *July 23–31, 2000, Paris, France.* The Program Committee includes D. Andler, C. Berline, B. Cooper, D. van Dalen, A. Kanamori, A. Razborov, H. Schwichtenberg, J. Steel, S. Todorčević, A. Wilkie, and C. Wood, Chair. The Local Organizing Committee includes Z. Chatzidakis, R. Cori, M. Dickmann, D. Lascar, L. Pacholski, J.-P. Ressayre, and B. Veličković. The Program Committee welcomes suggestions for speakers and topics, which may be sent to the Program Chair: Carol Wood, Department of Mathematics, Wesleyan University, Middletown, Connecticut 06459; email: cwood@wesleyan.edu.
- 6TH WORKSHOP ON LOGIC, LANGUAGE, INFORMATION AND COMPUTATION (WoLLIC'99). *May 25–28, 1999, Rio de Janeiro, Brazil.* This workshop, which will be held at Itatiaia National Park, is the sixth in a series of workshops which started in 1994 with the aim of fostering interdisciplinary research in pure and applied logic. The Program Committee includes G. Bellin, W. Carnielli, A. Edalat, R. van Glabbeek, J. Groenendijk, R. Kossak, D. Lehmann, D. Pavlovic, and M. Vardi. The Organizing Committee includes M. Benevides, W. Carnielli, Co-Chair, M. Finger, E. H. Haeusler, A. G. de Oliveira, L. C. Pereira, and R. de Queiroz, Co-Chair. Contributions are invited in the form of short papers (10 A4 10pt pages) in all areas related to logic, language, information and computation. Papers must be submitted anonymously (a separate identification page must be included), be written in English, and give enough detail to allow the program committee to assess the merits of the work. Submissions must be received by the deadline of March 8, 1999, by one of the Co-Chairs: Ruy 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 Walter Carnielli, Centro de Logica e Epistemologia, Univ. Estadual de Campinas, CP 6133, 13081-970 Campinas, SP, Brazil; telephone/Fax: (+55 192) 893269. WWW: http://www.di.ufpe.br/∼wollic/wollic99/. (ASL sponsored meeting.)
- TWELFTH BRAZILIAN LOGIC CONFERENCE (XXI EBL). *May 25–28, 1999, Rio de Janeiro, Brazil.* This conference will be held in conjunction with the 6th Workshop on Logic, Language, Information and Computation (WoLLIC'99). The Organizing Committee in Rio

de Janeiro consists of E. H. Hauesler, L. C. Pereira, M. Benevides, O. Chateaubriand, M. Correa, L. Franklin, and A. Porto. Contributed papers must be received by March 1, 1999 by the Chair of the Organizing Committee: E. H. Haeusler, Departamento de Informatica, PUC/Rio, Rua Marquis de Sao Vicente, 225, Gavea, Rio de Janeiro, Brazil, CEP 22453-900; email: `hermann@inf.puc-rio.br`. (ASL sponsored meeting.)

- THE SEVENTH ASIAN LOGIC CONFERENCE. *June 7–10, 1999, Hsi-Tou, Taiwan.* The conference will take place in a lodge in Hsi-Tou, a forest reserve in the central mountains of Taiwan. Invited speakers include J. van Benthem, C. Chihara, M. Dunn, E. Eells, B. Kim, K.-I Ko, M. Ozawa, G. Takeuti, S. Todorčević, and A. Tsuboi. The registration fee is US$100; it should be paid before May 7, 1999. Further information: The 7th Asian Logic Conference, Department of Philosophy, National Chung Cheng University, Chia-yi, 621, Taiwan; telephone: (886)5-242-8301 or (886)5-272-0411 X6479; Fax: (886)5-272-1203; email: `alc99@math.sinica.edu.tw` or `alc99@ccunix.ccu.edu.tw`; WWW: `http://www.phil.ccu.edu.tw/alc99.htm`. (ASL sponsored meeting.)
- 1999 ANNUAL CONFERENCE OF THE AUSTRALASIAN ASSOCIATION FOR LOGIC. *July 2–5, 1999, Melbourne University, Australia.* The conference organizer is Prof. Ross Brady, Philosophy Department, La Trobe University, Victoria, 3083 Australia; email: `Ross.Brady@latrobe.edu.au`. (ASL sponsored meeting.)
- FOURTEENTH ANNUAL IEEE SYMPOSIUM ON LOGIC IN COMPUTER SCIENCE (LICS '99). *July 2–5, 1999, Trento, Italy.* Invited speakers include H. Friedman, J.-Y. Girard, J. Halpern, U. Montanari, and L. Paulson. The Program Chair is Giuseppe Longo, Attn: LICS, LIENS (CNRS) et DMI, Ecole Normale Superieure, 45 Rue D'Ulm, 75005 Paris, France; telephone: +33-1-4432-3328; Fax: +33-1-4432-2080; email: `longo@dmi.ens.fr`. The Program Committee includes M. Abadi, R. Alur, L. C. Aiello, A. Asperti, V. Danos, M. Dezani, R. Di Cosmo, G. Dowek, A. Edalat, T. Ehrhard, M. Fitting, R. van Glabbeek, M. Grohe, N. Klarlund, G. Levi, G. Longo, M. Okada, M. Otto, E. Robinson, D. Sangiorgi, A. Sernadas, N. Shankar, W. Thomas, and S. Weinstein. The Kleene Award for Best Student Paper will be awarded. See the LICS webpage for details: `http://www.bell-labs.com/topic/conferences/lics`. This symposium is part of the Federated Logic Conference (FLoC '99). For more information about FLoC, see `http://www.cs.bell-labs.com/cm/cs/what/floc99`. (ASL sponsored meeting.)
- CALENDAR OF OTHER MEETINGS. See `http://www.aslonline.org` and the indicated Web pages for more information, including links to meeting web pages, where rules for submission of papers may be found.
- 8TH ANNUAL BOISE EXTRAVAGANZA IN SET THEORY (BEST). *March 26–28, 1999, Boise, Idaho.* The email addresses for the organizers are: T. Bartoszynski, `tomek@math.idbsu.edu`; A. Roslanowski, `roslanow@math.idbsu.edu`; and M. Scheepers, `marion@math.idbsu.edu`. WWW: `http://math.idbsu.edu/~best/`.
- TUTORIAL AND WORKSHOP ON LOGIC AND COGNITIVE SCIENCE. *April 12–15 (tutorial), April 16–18 (workshop), 1999, Philadelphia, Pennsylvania.* WWW: `http://www.cis.upenn.edu/~ircs/workshops/lcs.html`.
- JOINT MEETING OF THE LONDON MATHEMATICAL SOCIETY AND THE BELGIAN MATHEMATICAL SOCIETY. *May 14–16, 1999, Université Libre de Bruxelles, Belgium.* Plenary lectures will be given by H. Föllmer, W. T. Gowers, M. Kontsevich, and A. Macintyre. The meeting will include a special session of 40-minute lectures on algebraic geometry and mathematical logic, organized by J. Denef, W. A. Hodges, and C. Michaux. Invited speakers in this session are D. Abramovitch, A. Borovic, Z. Chatzidakis, M. Coppens, T. Gardener, F. Loeser, T. Scanlon, and W. Veys. Further information: J. Leroy, Campus Plaine U. L. B., Boulevard du

Triomphe, C. P. 218/01, B-1050 Bruxelles, Belgium; telephone: (32) (2) 650-58-45; Fax: (32) (2) 650-58-67; email: `leroy@ulb.ac.be`; WWW: `http://saturn.umh.ac.be/~boffa/logicumh.htm`.

- St. Petersburg Days of Logic and Computability. *May 26–29, 1999, Euler International Mathematical Institute, St. Petersburg, Russia.* WWW: `http://logic.pdmi.ras.ru/LogicDays`; email: `days@logic.pdmi.ras.ru`.
- NSF-CBMS Conferences. Five Regional Research Conferences in the Mathematical Sciences are being organized in 1999 by the Conference Board of the Mathematical Sciences, with support from the National Science Foundation. Further information: CBMS, 1529 Eighteenth Street, NW, Washington, DC 20036; telephone: 202-293-1170; Fax: 202-265-2384; WWW: `http://www.maa.org/cbms/cbms.html`.
- Joint Conference of the 5th Barcelona Logic Meeting and the 6th Kurt Gödel Colloquium. *June 16–19, 1999, Casa de la Caritat, Barcelona, Spain.* Invited speakers include V. Danos, L. van den Dries, M. Foreman, I. Juhasz, B. Kim, L. Libkin, A. Macintyre, H. Ono, D. Pigozzi, and J. P. Ressayre. Submit two copies of a one-page abstract, by the deadline of April 1, 1999, to the address given below; or a LaTeX file to one of the following email addresses: `kgc99@dbai.tuwien.ac.at` or `crm@crm.es`. The registration fee is 10,000 pesetas (approximately US$66). WWW: `http://www.crm.es`. Further information: Centre de Recerca Matemática (CRM), Apartat 50, 08193 Bellaterra (Barcelona), Spain; email: `crm@crm.es`.
- Tutorial Workshop on Realizability Semantics and Applications. *June 30–July 1, 1999, Trento, Italy.* Email: `wr@athena.disi.unige.it`.
- Paul Erdös and His Mathematics. *July 4–11, 1999, Budapest, Hungary.* Plenary speakers: N. Alon, B. Bollobas, P. Borwein, P. D. T. A. Elliott, R. Graham, A. Hajnal, P. Komjath, D. S. Lubinsky, C. Pomerance, I. Z. Ruzsa, M. Simonovits, and J. Spencer. WWW: `http://www.math-inst.hu/~erdos99`.
- Second Panhellenic Logic Symposium. *July 13–17, 1999, Delphi, Greece.* Invited speakers include Z. Chatzidakis, A. Kakas, A. Kechris, L. Kirousis, G. Metakides, Y. Moschovakis, C. Papadimitriou, and J. Sifakis. Tutorials will be given by A. Macintyre (Model theory and algebra), D. A. Martin (Descriptive set theory and large cardinals), and M. Y. Vardi (Logic and computer-aided verification). Contributed papers should be submitted by March 31, 1999, to one of the following: P. G. Kolaitis, Computer Science Department, University of California, Santa Cruz, California 95064; telephone: +1-831-459-4768; email: `kolaitis@cse.ucsc.edu`; or G. Koletsos, Department of Mathematics, National Technical University, GR-15780 Zografou, Athens, Greece; telephone: +30-1-772-1773; email: `koletsos@math.ntua.gr`. WWW: `http://logic.math.ntua.gr/symposium`.
- Sixth Meeting on the Mathematics of Language (MOL6). *July 23–25, 1999, University of Central Florida, Orlando, Florida.* WWW: `http://www.cis.upenn.edu/~ircs/mol/mol.html`.
- Conference and Workshop on Valuation Theory. *July 26–August 11, 1999 (tentative), University of Saskatchewan, Saskatoon, Saskatchewan, Canada.* Further information: Franz-Viktor Kuhlmann (`fvk@math.usask.ca`), Salma Kuhlmann (`skuhlman@math.usask.ca`), or Murray Marshall (`marshall@math.usask.ca`).
- Knowledge Representation Meets Databases (KRDB'99). *July 29–30, 1999, Linkoping, Sweden.* Submission deadline: March 15, 1999. WWW: `http://www.cs.man.ac.uk/img/krdb99/`.

- 24TH INTERNATIONAL SYMPOSIUM ON MATHEMATICAL FOUNDATIONS OF COMPUTER SCIENCE (MFCS '99). *August 15–21, 1999, Wroclaw, Poland.* The deadline for submission of contributed papers is March 11, 1999. Further information: MFCS'99, Institute of Computer Science, University of Wroclaw, Przesmyckiego 20, 51-151 Wroclaw, Poland; telephone: +48 71 3247344; Fax: +48 71 3251271; email: mfcs99@tcs.uni.wroc.pl; WWW: http://www.tcs.uni.wroc.pl/mfcs99/.
- 10TH INTERNATIONAL CONFERENCE ON CONCURRENCY THEORY (CONCUR'99). *August 24–27, 1999, Eindhoven, The Netherlands.* WWW: http://www/win/tue/nl/concur99/.
- OTHER ANNOUNCEMENTS. See http://www.aslonline.org for more information.
- INTERNATIONAL MASTERS PROGRAM IN COMPUTATIONAL LOGIC. Application deadline June 30, 1999. Further information: Maja von Wedelstedt, Secretary, Computational Logic Masters Program, Artificial Intelligence Institute, Department of Computer Science, Dresden University of Technology, D-01062 Dresden, Germany; telephone: (49) (351) 463-8341; Fax: (49) (351) 463-8342; email: cl@pikas.inf.tu-dresden.de; WWW: http://pikas.inf.tu-dresden.de/compulog/.
- PHILOSOPHY NEWS SERVICE LIST. Moderator: Richard Jones. To subscribe: PNS-List-Subscribe@eGroups.com. WWW: http://www.PhilosophyNews.com; archive at http://www.eGroups.com/list/pns-list.
- COMPUTING RESEARCH REPOSITORY. Through a partnership of ACM, the Los Alamos e-Print archive, and NCSTRL (Networked Computer Science Technical Reference Library), an online Computing Research Repository (CoRR) is being established. The Repository has been integrated into the collection of over 20,000 computer science research reports and other material available through NCSTRL (http://www.ncstrl.org) and will be linked with the ACM Digital Library.
- NEW BOOK: IN THE LIGHT OF LOGIC. Author: S. Feferman. (Logic and Computation in Philosophy, Oxford University Press, 1998, ISBN 0-19-508030-0, 336 pp., US$49.95) WWW: http://www.oup-usa.org/.
- NEW BOOK: ALGORITHMS AND DATA STRUCTURES IN VLSI DESIGN: OBDD - FOUNDATIONS AND APPLICATIONS. Authors: C. Meinel and T. Theobald. (Springer-Verlag, 1998, ISBN 3-540-64486-5) WWW: http://www.informatik.uni-trier.de/~theobald/obdd.html.
- PROCEEDINGS OF THE SECOND INTERNATIONAL WORKSHOP ON FIRST-ORDER THEOREM PROVING (FTP'98). This meeting took place November 23–25, 1998, in Vienna, Austria. The proceedings are now available online. WWW: http://www.logic.at/ftp98/; ftp: ftp://ftp.logic.at/pub/ftp98/.