THE BULLETIN OF SYMBOLIC LOGIC
Volume 10, Number 4, Dec. 2004

NOTICES

- IN MEMORIAM: NELS DAVID NELSON. Nels David Nelson was born on January 2, 1918 in Cape Girardeau, Missouri. He obtained his undergraduate and graduate education at the University of Wisconsin, Madison. Nelson received his Ph.D. in 1946, and was Stephen Kleene's first doctoral student.

  During 1942-46 Nelson was an assistant professor at Amherst College. From 1946 until his retirement in 1986, Nelson taught at the Department of Mathematics of the George Washington University, where he established a curriculum in mathematical logic. He was promoted to professor in 1958, and was the chairman of the Mathematics Department from 1956 until 1967. Nelson served as a member of the Executive Committee of the Association for Symbolic Logic from 1949 to 1953. He consulted for the National Research Council during 1960-63.

  Nelson's research was in the area of intuitionistic logic and its connection with recursive function theory. He investigated the relationship, in intuitionistic formal systems, between a truth definition and the provability of formulas representing statements of number theory. Kleene had previously introduced the intuitionistic truth definition and arithmetized this truth notion in his definition of realizability of a formula by a number. Kleene's and Nelson's results, "related the constructibility demands of the intuitionists as embodied in a formal system of Heyting to Church's thesis identifying constructible and general recursive functions." As a consequence, they demonstrated that certain classically true formulas are unprovable in the intuitionistic predicate calculus with strong negation. Later, Nelson developed formal systems, in the Gentzen sequential form, for the negationless first-order predicate logic and the negationless arithmetic. In his 1949 *Journal of Symbolic Logic* paper, "Constructible Falsity," Nelson proposed a constructive logic in which falsity is conceived in a fashion analogous to that for intuitionistic truth. Nelson made the notion of truth precise by defining a syntactical predicate "The natural number a P-realizes the formula A," and expressed a correlative concept constructible falsity by a predicate "The natural number a N-realizes the formula A."

  Nelson lived the last decades of his life in his Watergate apartment, near the Kennedy Center and the Smithsonian museums that he frequently visited. He died on August 22, 2003.

- CALL FOR PROPOSALS: 2006 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 San Antonio, Texas, January 12–15, 2006. 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, 2005.

- REDUCED DUES FOR INDIVIDUALS AND INSTITUTIONS IN DEVELOPING ECONOMIES. The ASL recently approved a program to offer reduced dues for individual and institutional members in developing economies. For 2004, the reduced dues are $18 for individuals and $130 for institutional members. These dues apply to individuals and institutions residing in countries whose economies are classified as 'lower middle income' or below on the World Bank's annual list. For further information, visit `http://www.aslonline.org/membership_outreach.html` or contact the ASL Business Office: ASL, Box 742, Vassar College, 124 Raymond

Avenue, Poughkeepsie, New York 12604, USA; Tel: 1-845-437-7080; Fax: 1-845-437-7830; email: `asl@vassar.edu`.

- Access to Current JSL and BSL for ASL Members via Project Euclid. Access to the full-text of current issues of *The Bulletin of Symbolic Logic* and *The Journal of Symbolic Logic* is available to all ASL members electronically via Project Euclid. Individual members who wish to gain access should follow these instructions: (1) go to `http://projecteuclid.org`; (2) in the 'for subscribers' tab, click on 'Log in for Existing Subscribers'; (3) click on "create a profile here" in the center of the login page; (4) fill in at least the required fields (those in red) in the top half of the form, setting Euclid ID and Password to anything you wish, but remember these for future logins; (5) go to the bottom half of the form ("Personal Subscription Registration"); (6) select the *Association for Symbolic Logic Journals* and in the subscriber code box enter your individual membership ID number (you will find this number on your journal mailing label, near the barcode); (7) at the bottom of the form, click the 'Create Profile' button, at which point users should then see a confirmation screen and should have access to full-content of the BSL and JSL. If you need help obtaining your membership ID number, contact Paul Arroyo of the University of Illinois Press at `jsl_access_help@www.press.uillinois.edu`. If you have any trouble using the Personal Subscription Registration form, please contact `Euclid-L@cornell.edu`.
- Perspectives in Mathematical Logic Volumes Available. This series is now being published by the Association for Symbolic Logic, under the new name *Perspectives in Logic*. Owing to the generosity of Springer-Verlag, the former publisher of the series, the ASL has made the existing stock of certain books in the series available to the logic community at low prices, as has been done with the *Lecture Notes in Logic*. (Some books in the series will continue to be made available by Springer-Verlag and others will be reprinted by ASL.) An order form for the volumes sold by the ASL can be found online at `http://www.aslonline.org/files/Perspectivesorderform.pdf`. This form also can be obtained by writing to the ASL Business Office.
- Student Travel Awards: The 2005 ASL Annual Meeting, 2005 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 2005 ASL Annual Meeting in Stanford, California, or the 2005 ASL European Summer Meeting in Athens, Greece; 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 2005 ASL Annual Meeting, applications and recommendations should be received before the deadline of January 14, 2005, by the Program Chair: John Steel, Department of Mathematics, University of California Berkeley, Berkeley, CA 94720, USA; email: `steel@math.berkeley.edu`.

For the 2005 ASL European Summer Meeting, applications and recommendations should be received before the deadline of April 1, 2005, by the Organizing Committee: LC2005, Department of Mathematics, University of Athens, GR-157 84 Zografou, Greece; email: `lc2005@math.uoa.gr`.

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.

- 2004-05 ASL Winter Meeting (with Joint Mathematics Meetings). *January 7–8, 2005, Atlanta, Georgia.* This meeting will take place in conjunction with the Joint Mathematics Meetings, which will be held January 5–8, 2005. The invited speakers include: M. Aschenbrenner, A. Caicedo, T. Ishiu, O. Lessman, J. Mileti, B. Poonen, and W.H. Woodin. There will be a joint AMS-ASL Panel discussion on New Perspectives on the Continuum Hypothesis; the panel will be moderated by K. Devlin, and participants include P.J. Cohen, D.A. Martin, and W.H. Woodin. There will be an AMS-ASL Joint Special Session on Reverse Mathematics, organized by J. Hirst and R. Solomon. The ASL also is sponsoring a subsession of the AMS-MAA-MER Special Session on Mathematics and Education Reform, entitled "Mathematical Logic in the Undergraduate Curriculum," organized by J. Hirst. The members of the Program Committee are R. Jin, A. Kanamori (Chair), and A. Shlapentokh.
- 2005 ASL Annual Meeting. *March 19–22, 2005, Stanford, California.* The invited speakers include: S. Awodey, I. Farah, S. Feferman, D. Haskell, A. Morozov, V. Pestov, A. Scedrov, A. Weiermann, and J. Zapletal. The Retiring Presidential Address will be given by R. Shore and the Sixteenth Annual Gödel Lecture will be given. A tutorial on computer-aided verification will be offered by M. Vardi. There also will be special sessions, with organizers in parentheses, on model theory (C. Miller and P. Speisegger), proof theory (G. Mints and S. Feferman), randomness (A. Nies), and set theory (G. Hjorth and S. Solecki). The members of the Program Committee are: J. Mitchell, M. Rathjen, S. Shapiro, R. Solomon, P. Speissegger, and J. Steel (Chair). The members of the Local Organizing Committee include: A. Arana, S. Feferman, G. Mints, J. Mitchell, and R. Sommer (Chair).
- 2005 ASL Spring Meeting (with APA). *March 23–27, 2005, San Francisco, California.* This meeting will be held jointly with the Annual Meeting of the Pacific Division of the American Philosophical Association. The Program Committee members for the ASL meeting are: A. Arana, T. Gillies, S. Lavine (Chair), and R. Zach.
- 2005 ASL European Summer Meeting (Logic Colloquium '05). *July 28–August 3, 2005, Athens, Greece.* Invited speakers include: J. Bergstra, D. Haskell, E. Jaligot, J. Moore, C. Parsons, H. Schwichtenberg, M. Sheard, S. Tupailo, K. Weihrauch, and J. Zapletal. The following short courses will be offered (with speakers in parentheses): computer science logic (P. Kolaitis), model theory (I. Ben-Yaacov), philosophy of logic (to be announced), and proof theory and constructivity (P. Aczel). The members of the Program Committee members are: C.T. Chong, C. Dimitracopoulos, H. Field, G. Jaeger, G. Metakides, L. Newelski, D. Normann, R. Parikh, J. Steel, S. Todorcevic, J. Tucker, F. Wagner, and S. Wainer (Chair). The Local Organizing Committee includes: D. Anapolitanos, C. Dimitracopoulos (Chair), L. Kirousis, G. Koletsos, M. Mytilinaios, S. Papastavridis, Th. Pheidas, P. Rondogiannis, G. Stavrinos, A. Synachopoulos, and A. Tzouvaras. 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 15, 2005 at the official meeting address: LC2005, Department of Mathematics, University of Athens, GR-157 84 Zografou, Greece; email: `lc2005@math.uoa.gr`. For further information visit `http://www.math.uoa.gr/lc2005`.

- 2006 ASL ANNUAL MEETING. *May 17–21, 2006, Montreal, Canada.* The members of the Local Organizing Committee include: Luc Bélair, F. Lepage, M. Marion (Chair), and P. Panangaden.
- 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.
- INTERNATIONAL WORKSHOP ON AUTOMATA, STRUCTURES AND LOGIC. *December 11–13, 2004, Auckland, New Zealand.* The theme of this event is the interplay between automata, structures, logic and complexity. Invited speakers include: A. Blumensath, B. Courcelle, C. Delhomme, R. Downey, V. Goranko, F. Klaedtke, T. Knapik, D. Kuske, C. Loeding, M. Lohrey, D. Niwinski, S. Rubin, J. Sakarovitch, F. Stephan, C. Stirling, and R. Thomas. The Program Committee members are: A. Dawar, E. Gradel, B. Khoussainov, D. Kozen, A. Nerode, and A. Voronkov. For further information, visit `http://www.cs.auckland.ac.nz/wasl2004`. (ASL Sponsored Meeting.)
- FIRST WORLD CONGRESS AND SCHOOL ON UNIVERSAL LOGIC (UNILOG 2005). *March 26–April 3, 2005, Montreux, Switzerland.* This event will focus on: techniques that can be used for a general theory of logics, studies of classes of logics, scope of validity and domain of application of fundamental theorems of logic, and, philosophical considerations about the nature of logic and the universality of some logical laws or axioms. Invited speakers include: A. Avron, D. Batens, J. Corcoran, J. Czelakowski, M. Dunn, D. Gabbay, R. Jansana, A. Koslow, V. de Paiva, K. Segerberg, J. Väänänen, V. Vasyukov, J. Woods, and J. Zygmunt. The school is intended for advanced students and young researchers. The organizers are: J.-Y. Béziau, A. Costa-Leite, A. Facchini, A. Karpenko, D. Sarenac, and H. Volken. For further information, visit `http://www.uni-log.org`. (ASL Sponsored Meeting.)
- 2005 AUSTRALASIAN ASSOCIATION FOR LOGIC MEETING. *September 24–25, 2005, Perth, Western Australia.* The principal organizer of this conference is H. Slater (email: `slaterbh@cyllene.uwa.edu.au`). The meeting will be held immediately prior to the annual meeting of the Australasian Mathematics Society (September 26–30, 2005), which also will take place in Perth. (ASL Sponsored Meeting.)
- TENTH INTERNATIONAL CONFERENCE ON DATABASE THEORY (ICDT 2005). *January 5–7, 2005, Edinburgh, Scotland.* This event is a biennial scientific conference on research on the foundations of database systems. The invited speakers are: D. Maier, M. Schwartzbach, and M. Vardi. The Program Co-Chairs are T. Eiter and L. Libkin. For further information, visit `http://www.cs.toronto.edu/db/icdt05/`.
- FIRST INDIAN CONFERENCE ON LOGIC AND ITS RELATIONSHIP WITH OTHER DISCIPLINES. *January 8–13, 2005, Bombay, India.* This event will focus on three themes: Indian systems of logic, systems of formal logic and foundational issues in philosophical logic, and issues arising out of applications of logic in the relevant disciplines. Invited speakers include: D. Acharya, S. Artemov, J. van Benthem, S.M. Bhave, M. Chakraborty, J. Crossley, D. Edgington, N. Foo, P. Gdrdenfors, P. Gokhale, Y. Gurevich, P. Hajek, D. Harel, R. Hilpinen,

W.A. Hodges, D. Kayser, S. Kripke, R. Parikh, D. Prahladacharya, V. Pratt, M.O. Rabin, K. Ramasubramanian V.V.S. Sarma, S. Sarukkai, K. Segerberg, R.K. Shyamasundar, M.D. Srinivas, S.P. Suresh, R. Van der Meyden, and M. Xu. There will also be a short session for young scholars to present their research. For further information, visit `http://logic2005.hss.iitb.ac.in`.

- International Workshop on Abstract State Machines (ASM'2005). *March 8–11, 2005, Paris, France.* This event focuses on all aspects of the theory and applications of abstract state machines in software/hardware engineering. The Program Committee Co-chairs are E. Boerger and A. Slissenko. The deadline for submission of papers is January 10, 2005. For further information, visit `http://www.univ-paris12.fr/lacl/Asm05/`.
- Workshop on Extensions of Hilbert's Tenth Problem. *March 21–25, 2005, Palo Alto, California.* This workshop, sponsored by the American Institute of Mathematics (AIM) and the NSF, will be devoted to extensions of Hilbert's Tenth Problem and related questions in Number Theory and Geometry. The organizers include: B. Poonen, A. Shlapentokh, X. Vidaux, and K. Zahidi. For more information, visit `http://aimath.org/ARCC/workshops/hilberts10th.html`.
- Seventh International Conference on Typed Lambda Calculi and Applications (TLCA 05). *April 21–25, 2005, Nara, Japan.* This series of conferences serves as a forum for presenting original research results that are broadly relevant to the theory and applications of typed lambda calculi and related systems. The Chair of the Conference Steering Committee is S. Abramsky. For more information, visit `http://www.kurims.kyoto-u.ac.jp/rdp05/tlca/`.
- 2005 Computational Complexity Conference. *June 12–15, 2005, San Jose California.* This annual event deals with computational complexity broadly defined. Topics include: structure of complexity classes, proof complexity, interactive proof systems, Kolmogorov complexity, complexity and logic, and quantum computation. For additional information, visit `http://computationalcomplexity.org`.
- New journal: Logical Methods in Computer Science. This new open-access, online, refereed journal is devoted to all theoretical and practical topics in computer science related to logic in a broad sense. The Editor-in-Chief is D.S. Scott. For further information, visit `http://www.lmcs-online.org`.
- Alfred Tarski: Life and Logic. Authors: A.B. Feferman and S. Feferman (Cambridge University Press, 2004, ISBN: 0521802407). `http://us.cambridge.org/titles/catalogue.asp?isbn=0521802407`.
- Knowledge Contributors. Editors: V.F. Hendricks, K.F. Jørgensen, and S.A. Pedersen (Kluwer Academic Publishers, 2003, ISBN: 1-4020-1748-0). `http://www.wkap.nl/prod/b/1-4020-1748-0`.
- Trends in Logic: 50 Years of Studia Logica. Editors: V.F. Hendricks and J. Malinowski (Kluwer Academic Publishers, 2003, ISBN: 1-4020-1601-8). `http://www.wkap.nl/prod/b/1-4020-1601-8`.
- Elements of Finite Model Theory. Author: L. Libkin (Springer Verlag, 2004, ISBN: 3-540-21202-7). `http://www.cs.toronto.edu/~libkin/fmt`.
- One Hundred Years of Russell's Paradox. Editor: G. Link (Volume 6, de Gruyter Series in Logic and its Applications, de Gruyter, 2004, ISBN: 3-11-017438-3). `http://www.degruyter.de/rs/bookSingle.cfm?id=IS-3110174383-1&l=E`.