THE BULLETIN OF SYMBOLIC LOGIC
Volume 13, Number 2, June 2007

NOTICES

- IN MEMORIAM: LEON HENKIN. Leon Albert Henkin, eminent logician and leader in mathematics education, died November 1, 2006. He was Professor of Mathematics Emeritus at the University of California, Berkeley, and had served as President of the Association for Symbolic Logic from 1962 through 1964.

  Henkin was born on April 19, 1921 in Brooklyn. He received a B.A. in Mathematics and Philosophy at Columbia in 1941 and a Ph.D. in Mathematics under Alonzo Church at Princeton in 1947. From 1942–46 he served the U.S. war effort, finishing as head of the Separation Performance Group at Oak Ridge. After several academic positions at Princeton and the University of Southern California, he joined the Berkeley faculty in 1953 and in 1959 became the first Chair of the new Group in Logic and the Methodology of Science. He served as Acting Chair or Chair of the Department of Mathematics during 1966-68 and 1983-85.

  Among his many wide-ranging contributions to logic, Henkin is perhaps best known for his "radically" new proof of Gödel's completeness theorem, in which he introduced what became a fundamental technique of model theory—the use of so-called 'Henkin constants'—and his work in algebraic logic, where he co-authored the monumental two-volume "Cylindric Algebras" with J.D. Monk and Alfred Tarski.

  Henkin was known as an extraordinarily clear expositor—in lectures, books, and films—receiving the Chauvenet Prize of the Mathematical Association of America (MAA) in 1964. He was a creative and energetic leader in the field of mathematical education, winning the MAA's first Gung-Hu Award in 1990 with the citation, "Few individuals of our era have had a greater impact on the health of American mathematics than has Leon Henkin." Finally, Henkin was an enormously influential national leader in the efforts to boost the number of women and underrepresented minorities in the upper echelons of mathematics and was himself recently named the first recipient of Berkeley's new annual award in this area, the Leon Henkin Citation for Distinguished Service.

- IN MEMORIAM: MARTIN LÖB. Martin Löb, a central figure in the early development of Mathematical Logic in the United Kingdom, died in Holland on August 21, 2006 at the age of 85, following a lengthy illness. He was a man of strong intellect and great determination who, as a teenaged refugee from Nazi rule, overcame the violent disruptions of wartime and, against the odds, established a distinguished academic career.

  After boyhood in Berlin, Löb escaped to England just prior to the onset of the Second World War. He lived first on a farm but, classed as an "enemy alien," he was deported in 1940 to an internment camp at Hay in the Australian outback. In this unlikely place Löb began, at age 19, to learn advanced mathematics and logic at the "camp university" set up by the older academic refugees. It was three years before he was able to make the return journey, after the British Government had acknowledged its error in enforcing the internments. By this stage he was committed to further academic study and, as the war ended, he was accepted for a London University degree and obtained a teaching post in a boarding school.

  Then he had a stroke of luck. A research studentship was advertised, to work under R.L. Goodstein at Leicester, and Löb got it. His Ph.D. followed and by 1951, at the age of 30, he was an Assistant Lecturer at Leeds. He stayed for twenty fruitful years, becoming Reader and then Professor of Mathematical Logic, before accepting a prestigious chair, previously held by Evert Beth, at the University of Amsterdam, where he remained until retirement.

  This was an exciting period for logic and the foundations of mathematics, and Löb strove to consolidate the subject at Leeds. Joined briefly by Robin Gandy, he established the Leeds

B.A. in Mathematics and Philosophy, the early international conferences which brought distinguished senior logicians such as Church and Tarski from U.S.A., the seminar dinners at Whitelock's pub, and the European Society (he strongly believed in the European ideal). University expansion in the 1960's enabled him to attract more logicians and build a distinctive mathematical logic group. His inspired leadership was the bedrock of what is now the Leeds Group.

Löb's research spanned proof theory, modal logic, and computability. Throughout his life he thought deeply about difficult problems, making fundamental contributions to each of these areas, but it is Löb's Theorem—the solution of a problem of Henkin, J.S.L. 1955—for which he is best known. This work lies at the heart of much research continuing to this day, on "reflection principles" and "provability logics."

Löb was an intensely private, cultured and quietly strong-willed person, devoted to his Dutch wife Caroline and their daughters Maryke and Stefani. After his retirement they moved to a quiet spot in the north of Holland, and there he stayed until his death, Caroline having sadly pre-deceased him. He valued his students highly and was concerned as much for their welfare as their academic progress. Only a few had the good fortune to complete their doctorates under him, but two of them now head the departments where he worked, and he influenced many others in the early stages of their careers. He is remembered with affection, as a profound and dedicated logician and teacher, and a man of great inner strength and integrity.

- The 2006 ASL Election. The ASL membership has elected Penelope Maddy (UC Irvine) as President, Alex J. Wilkie (Oxford) as Vice President, C.T. Chong (Singapore) and Jouko Väänänen (Helsinki) to the Executive Committee, and Jeremy Avigad (Carnegie Mellon) and Bakhadyr Khoussainov (Auckland) to the Council. Their terms of office are for three years beginning January 1, 2007. The Nominating Committee consisted of Françoise Delon, Donald A. Martin, Yiannis Moschovakis, Toniann Pitassi, Michael Rathjen, Richard A. Shore (Chair), Albert Visser, and W. Hugh Woodin.

- Cambridge University Press New Publisher of ASL Books. Cambridge University Press became the official publisher for the ASL book publishing program, effective October 1, 2006, replacing A.K. Peters, Ltd. All ASL books published by A.K. Peters prior to October 1 will continue to be marketed and made available by that publisher. For more information about the ASL book publishing program, visit `http://www.aslonline.org/books.html`.

- Reduced Dues for Individuals and Institutions in Developing Economies. In 2003, the ASL approved a program to offer reduced dues for individual and institutional members in developing economies. For 2007, the reduced dues are US$18 for individuals and US$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`.

- Reduced Dues for Unemployed Members. The ASL now offers reduced dues for individual members who are unemployed. For 2007, the reduced dues are US$38. For further information, visit `http://www.aslonline.org/membership-individual.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); (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 our membership fulfillment agent at the American Mathematical Society at asl-service@ams.org. If you have any trouble using the Personal Subscription Registration form, please contact Euclid-L@cornell.edu.

- BOOK DISCOUNTS FOR ASL MEMBERS. Several publishers now offer discounts on books to ASL members. For a detailed description of these discounts, visit http://www.aslonline.org/books-discounts.html on the ASL website, or write to the ASL Business Office.

- SPECIAL SALE OF ASL BOOKS. For a limited time, the ASL is making available the following volumes from its book series at an additional discount.

  Lecture Notes in Logic (each volume \$12 for ASL members, \$16 for non-members): LNL vol. 11, *Logic Colloquium '95; Proceedings of the Annual European Summer Meeting of the Association for Symbolic Logic, held in Haifa, Israel, August 9-18, 1995*; LNL vol. 12, *Logic Colloquium '96; Proceedings of the Colloquium held in San Sebastian, Spain, July 9-15, 1996*.

  Perspectives in Logic (each volume \$18 for ASL members, \$24 for non-members): *Essential Stability Theory* by S. Buechler; *Metamathematics of First Order Arithmetic* by P. Hajek and P. Pudlak.

  To order these specially discounted volumes, 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.

- STUDENT TRAVEL AWARDS: ASL OR ASL-SPONSORED MEETINGS. The ASL will make available modest travel awards to graduate students in logic to attend 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 US 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 ASL student member travel grants to ASL or ASL-sponsored meetings (other than the Annual Meeting and European Summer Meeting, details for which are announced separately), 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.

- 2007 ASL European Summer Meeting (Logic Colloquium '07). *July 13–19, 2007, Wrocław, Poland.* This conference will be co-located with the 2007 International Colloquium on Automata, Languages and Programming (ICALP 2007; see below and http://icalp07.ii.uni.wroc.pl/) and the Twenty-second Annual IEEE Symposium on Logic In Computer Science (LICS 2007; see below or visit http://www2.informatik.hu-berlin.de/lics/lics07/). Invited joint ASL-LICS hour lectures will be given by M. Hyland, C. Stirling, and invited joint ASL-LICS thirty-minute lectures will be offered by C. Calcagn, M. Escardó, R. Iemhoff, and A. Simpson.

  Tutorials will be offered by S. Jackson on *Cardinal arithmetic of $L(R)$ and related models* and B. Khoussainov on *Automatic structures*. The invited speakers include: A. Atserias, M. Baaz, V. Brattka, Z. Chatzidakis, G. Debs, F. Ferreira, A. Grzegorczyk, B. Kjos-Hanssen, P. Kowalski, P. Larson, and D.A. Martin. Special sessions (with organizers in parentheses) include: Logic and Analysis (I. Ben Yaacov and U. Kohlenbach), Model Theory (F. Delon and L. Newelski), Philosophical and Applied Logic at the Journal of Philosophical Logic (P. Maddy), Proof Complexity and Nonclassical Logics (P. Pudlák), and Set Theory (I. Farah and J. Hamkins). The Program Committee includes: A. Andretta, F. Delon, U. Kohlenbach, S. Lempp (Chair), P. Maddy, J. Marcinkowski, L. Newelski, A. Pitts, P. Pudlak, S. Solecki, F. Stephan, and G. Sundholm. The Local Organizing Committee includes: T. Jurdzinksi, E. Kieronski, P. Kowalski, J. Marcinkowski (Chair), and B. Rusiecka. For further information, visit http://www.math.uni.wroc.pl/~pkowa/lc2007.html.

- 2008 ASL Annual Meeting. *March 27–30, 2008, Irvine, California.* The members of the Program Committee are: M.C. Laskowski (Chair), J. Miller, T. Pitassi, E. Reck, and M. Zeeman. The members of the Local Organizing Committee include: A. Antonelli (Chair), P. Eklof, M. Foreman, P. Maddy, K. Wehmeier, and M. Zeman.

- 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.

- Fourteenth Workshop on Logic, Language, Information and Computation (WoLLIC'2007). *July 2–5, 2007, Rio de Janeiro, Brazil.* This is the fourteenth in a series of workshops intended to foster interdisciplinary research in pure and applied logic. The Chair of the Program Committee is D. Leivant. The Co-chairs of the Organizing Committee are: R. de Queiroz and P. Viana. For further information, visit http://www.cin.ufpe.br/~wollic/wollic2007. (ASL Sponsored Meeting.)

- Twenty-second Annual IEEE Symposium on Logic in Computer Science (LICS 2007). *July 10–14, 2007, Wrocław, Poland.* LICS is an annual international forum on theoretical and practical topics in computer science that relate to logic in a broad sense. LICS 2007 will be co-located with the 2007 ASL European Summer Meeting (Logic Colloquium 2007; see above and http://www.aslonline.org) and with the 2007 International Colloquium on Automata, Languages and Programming (ICALP 2007; see below and http://icalp07.ii.uni.wroc.pl/). The Program Chair is L. Ong; the Conference Chair is J. Marcinkowski; and the LICS General Chair is M. Abadi. For more information about LICS, visit http://www2.informatik.hu-berlin.de/lics/lics07/. (ASL Sponsored Meeting.)

- Second World Congress and School on Universal Logic (UNILOG 2007). *August 16–22, 2007, Xi'an, China.* Invited speakers include: J.-Y. Béziau, W. Carnielli, P. Cintula,

R. Diaconescu, V. Goranko, H. Field, P. Hajek, H. He, W. Hodges, I. Nemeti, F. Paoli, Z. Shi, S. Surma, M. Ying, and Z. Zhao. The school is intended for Ph.D. students, postdoctoral students, and young researchers. Tutorials will be offered by: H. Andréka, P. Arndt, L. Behounek, R. Brady, M. Coniglio, A. Costa-Leite, I. D'Ottaviano, W. Hendricks, S. Ju, A. Koslow, D. Krause, F. Liu, M. Luo, A. Moktefi, G. Sandu, F. Schang, P. Schroeder-Heister, H. Slater, G. Wang, W. Yang, X. Zhang, C. Zhao, X. Zhou, and Y. Zhou. The Co-chairs of the Program Committee are J.-Y. Béziau and H. He. The Organizing Committee is co-chaired by A. Costa-Leite and Y. Zhong. For further information, visit `http://www.uni-log.org/enter2.html`. (ASL Sponsored Meeting.)

- Federated Conference on Rewriting, Deduction, and Programming (RDP 2007). *June 25–29, 2007, Paris, France.* This event consists of two main colocated conferences, Rewriting Techniques and Applications (RTA'07) and Typed Lambda Calculi and Applications (TLCA'07), and several workshops. The meeting also includes a colloquium in honor of Guiseppe Longo, entitled "From Type Theory to Morphologic Complexity." The invited speakers for RTA'07 include X. Leroy, R. Nieuwenhuis, and F. Pfenning (joint with TLCA'07). The invited speakers for TLCA'07, in addition to Pfenning, are P. Baillot, G. Morrisett, and, in a session to celebrate the seventy-fifth anniversary of the lambda calculus, H. Barendregt. The Chair of the Program Committee for RTA'07 is F. Baader, and the Chair of the Program Committee for TLCA'07 is S. Ronchi Della Rocca. For further information, visit `http://www.lsv.ens-cachan.fr/rdp07/`.
- Fourteenth International Symposium on Temporal Representation and Reasoning (TIME 2007). *June 28–30, 2007, Alicante, Spain.* This symposium, organized within the annual TIME series (see `http://time.dico.unimi.it`), is intended to bring together active researchers from distinct areas involving representation of, and reasoning about, temporal phenomena. The main tracks of the symposium are: Temporal Representation/Reasoning in AI and Linguistics, Time Management in Databases, and Temporal Logic in Computer Science. The General Chair is C. Dixon and the Program Chairs are V. Goranko and X.S. Wang. The Local Organization Chairs are P.M. Barco, R. Munoz, and E. Saquete. For further information, visit `http://gplsi.dlsi.ua.es/congresos/time07/`.
- Automated Reasoning with Analytic Tableaux and Related Methods (TABLEAUX 2007). *July 3–6, 2007, Aix en Provence, France.* This event brings together researchers interested in all aspects—theoretical foundations, implementation techniques, systems development and applications—of the mechanization of reasoning with tableaux and related methods. The invited speakers include: N. Bonatti, J.-J. Meyer, and C. Tinelli. The Conference and Program Committee Chair is N. Olivetti. For further information, visit `http://tableaux2007.univ-cezanne.fr/`.
- 2007 International Colloquium on Automata, Languages and Programming (ICALP 2007). *July 9–13, 2007, Wrocław, Poland.* This event is the main conference and annual meeting of the European Association for Theoretical Computer Science. It will be co-located with the 2007 ASL European Summer Meeting (Logic Colloquium 2007; see above and `http://www.aslonline.org`) and the Twenty-second Annual IEEE Symposium on Logic In Computer Science (LICS 2007; see above and `http://www2.informatik.hu-berlin.de/lics/lics07/`). For further information, visit `http://icalp07.ii.uni.wroc.pl/`.
- First European Set Theory Meeting. *July 9–13, 2007, Będlewo, Poland.* The goal of this event is to create a European network in set theory. The organizers of the meeting include: B. Löwe, B. Plebanek, J. Väänänen, and B. Velickovic. For further information, visit `http://www.logique.jussieu.fr/~boban/bedlewo/index.html`.
- International Symposium on Symbolic and Algebraic Computation (ISSAC 2007). *July 29–August 1, 2007, Waterloo, Ontario, Canada.* This event, the thirty-second in the series, is

the premier annual conference to present and discuss new developments and original research results in all areas of symbolic mathematical computation. The General Chair is D. Wong and the Program Chair is B. Mourrain. For further information, visit http://www.cs.uwaterloo.ca/conferences/issac2007/index.shtml.

- NINTEENTH EUROPEAN SUMMER SCHOOL IN LOGIC, LANGUAGE AND INFORMATION (ESSLLI-2007). *August 6–17, 2007, Dublin, Ireland.* The European Summer Schools in Logic, Language and Information focus 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-2007 is organized under the auspices of the European Association for Logic, Language and Information (FoLLI). For more information about ESSLLI-2007, visit http://folli.loria.fr/esslliyear.php?2007; for further information about FoLLI, see http://www.folli.org.
- THIRTEENTH INTERNATIONAL CONGRESS OF LOGIC, METHODOLOGY AND PHILOSOPHY OF SCIENCE. *August 9–15, 2007, Beijing, China.* This event, held every four years, is the main international conference organized by the Division of Logic, Methodology and Philosophy of Science (DLMPS) of the International Union of History and Philosophy of Science (IUHPS). The program is divided into several sections under the general headings of Logic, General Philosophy of Science, Philosophical Issues of Particular Sciences, and Science and Society. For further information, visit http://www.clmps2007.org.
- SECOND CONFERENCE ON ALGEBRA AND COALGEBRA IN COMPUTER SCIENCE (CALCO 2007). *August 20–24, 2007, Bergen, Norway.* This event brings together researchers and practitioners to exchange new results related to foundational aspects and both traditional and emerging uses of algebras and coalgebras in computer science. The Co-chairs of the Program Committee are U. Montanari and T. Mossakowski. For further information, visit http://www.ii.uib.no/calco07/.
- JOURNÉES JEAN-YVES GIRARD. *September 10-11, 2007, Paris, France.* This conference is in honor of Jean-Yves Girard on his sixtieth birthday. The invited speakers are: P. Dehornoy, G. Huet, H.R. Jervell, Y. Lafont, O. Laurent, T. Paul, P. Selinger, B. Teissier, and G. Winskel. The members of the Organizing Committee include: M. Abrusci, P.-L. Curien (Co-chair), M. Hyland G. Longo, M. Okada, P. Scott, and J. Vauzeilles (Co-chair). For further information, visit http://www-lipn.univ-paris13.fr/jyg60.
- SIXTEENTH EACSL ANNUAL CONFERENCE ON COMPUTER SCIENCE LOGIC (CSL 07). *September 11–15, 2007, Lausanne, Switzerland.* This is the annual conference of the European Association for Computer Science Logic (EACSL). It is intended for computer scientists whose research activities involve logic, as well as for logicians working on issues significant for computer science. The invited speakers include: S. Abramsky, L. de Alfaro, A. Beckmann, A. Dawar, O. Kupferman, and H. Seidl. The Co-chairs of the Program Committee are J. Duparc and T. Henzinger. For further information, visit http://www.unil.ch/csl07/.
- FIRST SYNTHESE ANNUAL CONFERENCE: "BETWEEN LOGIC AND INTUITION: DAVID LEWIS AND THE FUTURE OF FORMAL METHODS IN PHILOSOPHY". *October 3–5, 2007, Copenhagen, Denmark.* This conference serves as a tribute to Lewis and as a venue for adressing questions concerning the relationship between logic and philosophical intuition. This event is sponsored by PHIS - The Danish Research School in Philosophy, History of Ideas and History of Science, and Springer. The invited speakers include: J. Collins, A. Hajek, H. Leitgeb, R. Parikh and L.A. Paul. The Program Committee and Conference Chairs are: J. van Benthem, V.F. Hendricks, S. Andur Pedersen, and J. Symons. For further information, visit http://www.springer.com/west/home/philosophy?SGWID=4-40385-70-35761018-0.