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ASSOCIATION FOR SYMBOLIC LOGIC

ASL NEWSLETTER   November 2009

- **In Memoriam: Henryk Kotlarski.** Henryk Kotlarski, an influential Polish logician of his generation, passed away on February 17, 2008 at the age of 59, after a battle with cancer. His first publication, *Some simple results on automorphisms of models*, published in 1973 in the Bulletin of the Polish Academy of Sciences, was based on his Masters Thesis written under the supervision of Andrzej Mostowski. He received his Ph.D. in 1976 at the University of Wrocław, where his advisor was Czesław Ryll-Nardzewski.

  Kotlarski published a total of forty-four research articles, most of which deal with the metamathematics of Peano arithmetic (PA). In particular, he worked on classification problems for elementary cuts and automorphisms of models of PA, nonstandard satisfaction classes, ordinal combinatorics related to the independence phenomena, and model theoretic approaches to proof theoretic results. Many of his ideas have proved to be of key importance in the study of these areas. Kotlarski wrote three excellent survey papers, in which his work and related developments are presented: *Automorphisms of countable recursively saturated models of* PA*: a survey*, in Special Issue: Models of arithmetic, Notre Dame J. Formal Logic **36** (1995), 505–518; *The incompleteness theorems after 70 years*, in Special Issue: Provinces of logic determined. Essays in the memory of Alfred Tarski, Ann. Pure Appl. Logic **126** (2004), 125–138; and, *A model theoretic approach to proof theory of arithmetic*, in Andrzej Mostowski and foundational studies, IOS, Amsterdam, 2008, 198–234.

  Henryk's eagerness to share his work and enthusiasm for mathematics along with his sharp sense of humor and keen sensibility continue to be fondly remembered and sorely missed by those who had the pleasure of knowing him.

- **The 2009 ASL Election.** Enclosed with this Newsletter is the ballot for the 2009 election for a President and Vice President, two members of the Executive Committee of the Council, and two members of the Council. For those receiving the Newsletter via email, the ballot is included as a pdf attachment. All terms are for three years beginning January 1, 2010. The Nominating Committee consisted of Jeremy Avigad, Rod Downey, Erich Grädel, Alexander Kechris (Chair), Donald A. Martin, Charles Parsons, Richard Shore, and Carol Wood. The ballot also includes three proposed amendments to the ASL constitution for ratification by the membership.

- **Call for Proposals: 2011 AMS-ASL Joint Special Session.** The ASL Committee on Logic in North America requests proposals for an AMS-ASL Joint Special Session to be held at the Joint Mathematics Meetings in New Orleans, January 5–8, 2011. Proposals or requests for further information should be sent to the Committee Chair, Jeremy Avigad (email: `avigad@cmu.edu`). The deadline for receipt of proposals is January 15, 2010.

- **Reduced Dues for Individuals and Institutions in Developing Economies.** The ASL offers reduced dues for individual and institutional members in developing economies. For 2010, the reduced dues are US$18 for individuals and US$130 for institutional basic membership, US$180 for full membership. 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 2010, the reduced dues are US$41. 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`.

- **New Emeritus ASL Individual Membership.** Beginning with the 2010 calendar year, the ASL will offer retired individual members two membership options. Emeritus membership includes all the privileges of regular individual membership and is available to retired individuals who have been members of the ASL for 15 years. The dues for Emeritus membership for 2010 are US$41. The privileges attached to retired membership (previously called emeritus membership) include the ASL Newsletter and the right to vote in ASL elections, but do not include subscriptions to the ASL journals. Retired membership is offered to retired individuals who have been members of the Association for 20 years and is free. For more information about both options, visit `http://www.aslonline.org/membership-individual.html`.

- **Older ASL Books Available Online at Project Euclid.** The ASL has made available online via Project Euclid those older volumes of Lecture Notes in Logic and Perspectives in Logic owned by the ASL and published in collaboration with Springer-Verlag. The available Lecture Notes in Logic books (volumes 1-12) can be found at `http://projecteuclid.org/DPubS?service=UI&version=1.0&verb=Display&handle=euclid.lnl`, and the available Perspectives volumes (those owned by the ASL) can be found at `http://projecteuclid.org/DPubS?service=UI&version=1.0&verb=Display&handle=euclid.pl`. The ASL continues to sell original hard copies of those Lecture Notes and Perspective volumes of which there is sufficient stock; information about purchasing these volumes can be found at `http://www.aslonline.org/books.html`.

- **Book and Journal Discounts for ASL Members.** Several publishers now offer discounts on books and journals to ASL members. For a detailed description of these discounts, visit `http://www.aslonline.org/members-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`.

ASL MEETINGS

- **Student Travel Awards: The 2010 ASL North American Annual Meeting, 2010 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 2010 ASL North American Annual Meeting in Washington, D.C., or the 2010 ASL European Summer Meeting in Paris, France; 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 North American 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 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 2010 ASL North American Annual Meeting, applications and recommendations should be received before the deadline of December 21, 2009, by the Program Chair: Reed Solomon, Department of Mathematics, University of Notre Dame, 255 Hurley Hall, Notre Dame, IN 46556-4618, USA; Fax: 1-574-631-6579; email: `solomon@math.uconn.edu`. Applications by email are preferred.

For the 2010 ASL European Summer Meeting, applications and recommendations should be received before the deadline of March 29, 2010 by the Organizing Committee. Applications and recommendations should be submitted online at `www.logic2010.org`.

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.

- **2009-10 ASL Winter Meeting (with Joint Mathematics Meetings).** *January 15–16, 2010, San Francisco, California.* This meeting will take place in conjunction with the Joint Mathematics Meetings, which will be held January 13–16, 2010. Invited speakers include: F. Ferreira, J. Harrison, F. Loeser, C. Miller, J. Miller, S. Solecki, and S. Todorcevic. In addition to the ASL program, there will be a joint AMS-ASL-MAA Panel discussion on *Hilbert's Tenth Problem*, with M. Davis, B. Poonen, K. Rubin, and A. Shlapentokh as panelists. A joint AMS-ASL Special Session on *Surreal Numbers*, organized by L. van den Dries and P. Ehrlich also is planned. The members of the Program Committee are M. Beeson, B. Kjos-Hanssen, and J. Steel (Chair). The complete program for this meeting is included in this Newsletter mailing.

- **2010 ASL Winter Meeting (with APA).** *February 18–20, 2010, Chicago, Illinois.* This meeting will be held jointly with the Annual Meeting of the Central Division of the American Philosophical Association. There are three invited sessions. The first, *Continuity and Infinitesimals*, includes the speakers K. Easwaran, P. Ehrlich, and D. Ross. The speakers for the second session, *Causality*, are C. Hitchcock, J. Pearl, and P. Spirtes. For the third session, *Pluralism*, the speakers are R. Cook and J.-P. Marquis. The members of the Program Committee are P. Ehrlich, J. Joyce, and S. Shapiro (Chair). A registration form, hotel information, and the complete program for this meeting are included in this Newsletter mailing.

- **2010 ASL North American Annual Meeting.** *March 17–20, 2010, Washington, D.C.* The twenty-first annual Gödel Lecture will be delivered by A. Razborov. A tutorial will be offered by B. Coecke on *Quantum Computing*. The invited speakers include: Z. Chatzidakis, B. Kjos-Hanssen, K. Landsman, L. Moss, D. Raghavan, T. Scanlon, E. Schimmerling, H. Towsner, and R. Weber. Special sessions are planned on categorical logic, computational complexity, logic and foundations of physics, model theory, and set theory. The members of the Program Committee are: W. Gasarch, J. Hamkins, A. Kolesnikov, R. Rynasiewicz, P. Selinger, and R. Solomon (Chair). The Local Organizing Committee includes: J. Chubb, A. Enayat, A. Eskandarian, M. Friend, J. Goodrick, V. Harizanov (Chair), and A. Kolesnikov.

  Registration and local information material is enclosed in this Newsletter mailing. Electronic registration is available at `http://www.aslonline.org/meeting_registrationsecure.html`. For further information, visit `http://www.gwu.edu/~asl2010/`.

  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 December 4, 2009, 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`.

- **2010 ASL European Summer Meeting (Logic Colloquium '10).** *July 25–July 31, 2010, Paris, France.* The Program Committee includes: A. Atserias, Z. Chatzidakis, T. Coquand, P.-L. Curien, M. Detlefsen, C. Dimitracopoulos, J. Floyd, I. Juhasz, M. Magidor, M. Rathjen (Chair), T. Scanlon, A. Soskova, and Y. Venema. The Local Organizing Committee includes: S. Abbes, V. Balat, R. Cori (Chair), T. Ehrhard, R. Labib-Sami, R. Lassaigne, Y. Legrandgérard, G. Malod, S. Périfel, J.-E. Pin, P. Rozière, and B. Velikovic. For further

information, contact R. Cori (email: `cori@logique.jussieu.fr`) or T. Ehrhard (email: `thomas.ehrhard@pps.jussieu.fr`), or visit `http://www.logic2010.org`.

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 should be submitted online by the deadline of April 5, 2010 at the official meeting website: `http://www.logic2010.org`.

- **2011 ASL North American Annual Meeting.** *March 24–27, 2011, Berkeley, California.* The Local Organizing Committee includes: P. Mancosu, T. Scanlon (Chair), T. Slaman, and W.H. Woodin.

- **Rules for Abstracts.** The rules for abstracts of contributed talks at ASL meetings (including those submitted "by title") may be found at `http://www.aslonline.org/rules_abstracts.html`. *The rules were recently revised and all authors who wish to submit abstracts are urged to consult the new rules.* 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.

ASL SPONSORED MEETINGS

- **Young Researchers in Set Theory Workshop 2010.** *February 15-19, 2010, Seminarzentrum Raach, Austria.* The aim of this conference, to be hosted by the Centre de Recerca Mathemàtica (CRM), is to bring together Ph.D. students and postdoctoral researchers in set theory in order to learn from leading researchers in the field, hear about the latest research, and discuss research issues in a co-operative environment. Tutorials given by senior researchers representing a branch of set theory will be offered by: U. Abraham (*Forcing*), G. Hjorth (*Descriptive Set Theory*), J. Moore (*Applications of Set Theory*), and R. Schindler (*Inner Model Theory*). The Chair of the Scientific Committee is A. Brooke-Taylor, and the Local Organizing Committee includes B. Irrgang, D. Schrittesser, and K. Thompson. For further information, visit `http://www.math.uni-bonn.de/people/logic/events/young-set-theory-2010/index.shtml`.

- **Third World Congress and School on Universal Logic (UNILOG 2010).** *April 18–25, 2010, Lisbon, Portugal.* Invited speakers include: H. Field, G. Grätzer, Y. Gurevich, G. Jaeger, M. Kracht, H. Ono, G. Sambin, J. Seldin, A. Sernadas, and D. Scott. The school is intended for Ph.D. students, postdoctoral students, and young researchers. Tutorials will be offered by: J.-Y. Beziau, P. Blackburn, J. Branquinho, A. Buchsbaum, M. Coniglio, R. Diaconescu, C. Dutilh-Novaes, F. Ferreira, A. Herzig, D. Krause, J.-L. Lee, D. Luzeaux, J. Marcos, P. Mateus, F. Moltmann, A. Moretti, J. Sallantin, F. Schang, C. Sernadas, T. Skura, H. Wansing, G. Wheeler, and A. Wisniewski. For further information, visit `http://www.uni-log.org`.

- **Fifth Conference on Logic, Computability and Randomness.** *May 24–28, 2010, Notre Dame, Indiana.* This event, to be held at the University of Notre Dame, will focus on algorithmic randomness and related topics in logic, computability, complexity, and randomness. The Chair of the Program Committee is P. Cholak. The Local Organizing Committee includes: L. Axon, P. Cholak, and L. Tranberg. For further information, visit `http://www.math.nd.edu/conferences/AlgoRandomness/welcome.shtml`.

- **North American Summer School in Logic, Language, and Information (NASSLLI 2010).** *June 21–25, 2010, Bloomington, Indiana.* This event, loosely modeled on the long-running ESSLLI series in Europe (see `http://esslli2010cph.info/`), will consist of a number of courses and workshops with a focus on interdisciplinary work involving logic, linguistics, computer science, cognitive science, philosophy, and artificial intelligence. The Program Committee Chair is D. Beaver and the Chair of the Steering Committee is L. Moss. For more information, visit `http://www.indiana.edu/∼nasslli/`.

- **Computability in Europe 2010 (CiE 2010): Programs, Proofs, Processes.** *June 30–July 5, 2010, Ponta Delgada (Azores), Portugal.* This event is the sixth in a series organized within the network "Computability in Europe" (CiE). The conference will deal not only the more established lines of research of computational complexity and the interplay between proof theory and computation, but also novel views that rely on physical

and biological processes and models to find new ways of tackling computations and improving their efficiency. The broad scope of this event is intended to provide a forum for the discussion of theoretical and practical issues in computation with an emphasis on new paradigms of computation and the development of their mathematical theory. Tutorials will be offered by J. Bub on *Information, Computation and Physics* and B. Codenotti on *Computational Game Theory*. Invited speakers include: E. Allender, J.L. Balcázar, R. de Wolf, S. Goldwasser, D. Hirschfeldt, S. Lloyd, S. Negri, and T. Pitassi. Special sessions are planned on Biological Computing, Computability of the Physical, Computational Complexity, Proof Theory and Computation, Reasoning as Computation from Leibniz to Boole, and Web Algorithms and Computation. The Co-chairs of the Program Committee are F. Ferreira and E. Mayordomo. For more information, visit `http://www.cie2010.uac.pt/`.

- **Seventeenth Workshop on Logic, Language, Information and Computation (WoLLIC'2010).** *July 6–9, 2010, Brasilia, Brazil.* This is the seventeenth in a series of workshops intended to foster interdisciplinary research in pure and applied logic. The Chair of the Program Committee is A. Dawar. The Co-chairs of the Organizing Committee are M. Ayala-Rincon and R. de Queiroz. For further information, visit `http://www.wollic.org/wollic2010/`.

- **Twenty-fifth Annual IEEE Symposium on Logic in Computer Science (LICS 2010).** *July 11–14, 2010, Edinburgh, Scotland.* The LICS Symposium is an annual international forum on theoretical and practical topics in computer science that relate to logic in a broad sense. LICS 2010 will be organized as part of the the Fifth Federated Logic Conference (FLoC 2010; see below). The Program Chair is J.-P. Jouannaud, the General Chair is R. Alur, and the Conference Chair is M. Escardó. For further information, visit `http://www2.informatik.hu-berlin.de/lics/lics10/`.

CALENDAR OF OTHER MEETINGS (Also see `http://www.aslonline.org`.)

- **Model-Based Reasoning in Science and Technology (MBR'09_Brazil).** *December 17–19, 2009, Campinas, Brazil.* This is the fifth meeting in this series. Invited speakers include: W. Carnielli, B. Chandrasekaran, S. Colton, J. Hintikka, J.J. da Silva, A. Kirlik, M. Leyton, M. Lima-Marques, L. Magnani, R. Parikh, C. Pizzi, P. Thagard, and J. Woods. The Program Committee Co-Chairs are W. Carnielli and L. Magnani. For more information, visit `http://www.unipv.it/webphilos_lab/mbr09.php`.

- **Thirty-seventh ACM SIGACT-SIGPLAN Symposium on Principles of Programming Languages (POPL 2010).** *January 20–22, 2010, Madrid, Spain.* This event is co-located with: the Eleventh International Conference on Verification, Model Checking, and Abstract Interpretation (VMCAI 2010), the Workshop on Functional and (Constraint) Logic Programming (WFLP 2010), the Workshop on Partial Evaluation and Program Manipulation (PEPM 2010), the Symposium on Practical Aspects of Declarative Languages (PADL 2010), the Workshop on Types in Language Design and Implementation (TLDI 2010), the Workshop on Programming Languages meets Program Verification (PLPV 2010), and the Workshop on Declarative Aspects of Multicore Programming (DAMP 2010). POPL offers a forum for all aspects of programming languages and systems, with emphasis on how principles underpin practice. The invited speakers are N. Gershenfeld and T. A. Henzinger. The General Chair is M. Hermenegildo and the Program Chair is J. Palsberg. For more information about POPL 2010 and the co-located conferences and workshops, visit `http://www.cse.psu.edu/popl/10/`.

- **Logical Approaches to Barriers in Computing and Complexity.** *February 17–20, 2010, Greifswald, Germany.* This workshop is jointly organized by the Deutsche Vereinigung für Mathematische Logik und für Grundlagen der Exakten Wissenschaften (DVMLG), the Polskie Towarzystwo Logiki i Filozofii Nauki (PTLiFN), the Association for Computability in Europe" (ACiE), and the European Association for Computer Science Logic (EACSL); it is sponsored by the Stiftung Alfried Krupp Kolleg Greifswald and the Deutsche Forschungsgemeinschaft (DFG). The workshop shall focus on logical descriptions of complexity (e.g., descriptive complexity, bounded arithmetic), complexity classes of abstract, algebraic and infinite structures, barriers in proving com-

plexity results, and Kolmogorov complexity and randomness. Invited speakers include: A. Carbone, L. Fortnow, E. Grädel, P. Koiran, L. Kolodziejczyk, and A. Kolokolova. There also will be a special session on "Complexity in Arbitrary Structures," organized by C. Gassner and M. Ziegler. The Program Committee Chair is A. Beckmann. For further information, including paper submission, visit `http://www.cs.swan.ac.uk/greifswald2010/`.

- **Fifth Federated Logic Conference (FLoC'10).** *July 9–21, 2010, Edinburgh, Scotland.* This event brings together several synergistic conferences that apply logic to computer science. The following eight conferences will participate in FLoC '10: Conference on Computer-Aided Verification (CAV), Computer Security Foundations Symposium (CSF), International Conference on Logic Programming (ICLP), International Joint Conference on Automated Deduction (IJCAR), International Conference on Interactive Theorem Proving (ITP), the ASL-sponsored IEEE Symposium on Logic in Computer Science (LICS), International Conference on Rewriting Techniques and Applications (RTA), and International Conference on Theory and Applications of Satisfiability Testing (SAT). Pre-conference workshops will be held on July 9–10, 2010. The General Chair for FLoC'10 is M. Vardi and the Conference Co-Chairs are L. Libkin, and G. Plotkin. For further information, visit `http://www.floc-conference.org`.

- **Twenty-first European Summer School in Logic, Language and Information (ESSLLI-2010).** *August 9–20, 2010, Copenhagen, Denmark.* 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. The Chair of the Program Committee is V. Goranko and the Organizing Committee Chair is V.F. Hendricks. ESSLLI-2010 is organized under the auspices of the European Association for Logic, Language and Information (FoLLI). For more information about ESSLLI-2010 visit `http://esslli2010cph.info/`; for further information about FoLLI, visit `http://www.folli.org`.

- **Fourteenth Congress of Logic, Methodology and Philosophy of Science.** *July 19–26, 2011, Nancy, France.* This event, which has been held every four years beginning in 1960, 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 usually is divided into sections under the headings of Logic, General Philosophy of Science, Philosophical Issues of Particular Sciences, and Science and Society. The Chair of the Executive Committee is W. Hodges, the General Program Committee Chair is P. Schroeder-Heister, and the Chair of the Local Organizing Committee is G. Heinzmann. For more information, visit `http://www.clmps2011.org/en/editorial.html`.

OTHER ANNOUNCEMENTS (Also see `http://www.aslonline.org`.)

- **Call for Nominations: 2010 Ackermann Award.** The European Association for Computer Science Logic (EASCSL) invites submissions for its Outstanding Dissertation Award for Logic in Computer Science (Ackermann Award). To be eligible for the 2010 Ackermann Award, the candidate must have completed a Ph.D. dissertation in topics specified by the EACSL and LICS conferences that was formally accepted as a Ph.D. thesis at a university or equivalent institution between January 1, 2008 and December 31, 2009. The deadline for submission is March 15, 2010; details are available at `http://www.eacsl.org/submissionsAck.html`. For the years 2010-2012, the Award is sponsored by the Kurt Gödel Society.

The next Newsletter will be sent in January 2010. Items to be included should reach the Secretary-Treasurer before January 10, 2010.

Submitted by Charles Steinhorn, Secretary-Treasurer.