Association for Symbolic Logic

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ASL NEWSLETTER

November 2011

- The 2011 ASL Election. Enclosed with this Newsletter is the ballot for the 2011 election for 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, 2012. The Nominating Committee consisted of Toshiyasu Arai, Michael Benedikt, Carlos DiPrisco, Mirna Džamonja, David Marker, Yiannis Moschovakis (Chair), and Richard Zach.
- Call for Proposals: 2014 North American Annual Meeting. The ASL Committee on Logic in North America requests proposals for the 2014 ASL North American Annual meeting, to be held some time in the first five months of 2014. The committee seeks a university somewhere in North America and a local committee to host the meeting and handle the local arrangements. The ASL meetings ordinarily cycle geographically in the pattern: west (Berkeley 2011), midwest (Madison 2012), east (Waterloo 2013). Thus, for 2014 the committee seeks a location in the west. Any reasonable proposal, however, will be considered. For more information, interested parties should contact the Committee Chair, Matt Valeriote (email: matt@math.mcmaster.ca) no later than January 9, 2012.
- Call for Proposals: 2013 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 San Diego, January 9–12, 2013. Proposals or requests for further information should be sent to the Committee Chair, Matt Valeriote (email: matt@math.mcmaster.ca). The deadline for receipt of proposals is January 9, 2012.
- Discounted Dues for New ASL Individual Members. The ASL now offers a 50% discount on dues for new individual members during each of the first two years of membership. For more information, visit http://www.aslonline.org/membership-individual.html.
- Reduced Dues for Individuals and Institutions in Developing Economies. The ASL offers reduced dues for individual and institutional members in developing economies. For 2012, 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 'upper middle income' or below on the World Bank's annual list for four of the last five years. 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 offers reduced dues for individual members who are unemployed. For 2012, the reduced dues are US\$44. 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.
- Emeritus ASL Individual Membership. The ASL offers 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 2012 are US\$44. 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.

• 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.

ASL MEETINGS

• Student Travel Awards: The 2012 ASL North American Annual Meeting, 2012 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 2012 ASL North American Annual Meeting in Madison, Wisconsin, or the 2012 ASL European Summer Meeting in Manchester, England; 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 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 for meetings outside of North America 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 2012 ASL North American Annual Meeting, applications and recommendations should be received before the deadline of December 19, 2011, by the Program Chair: Bradd Hart, Department of Mathematics & Statistics, McMaster University, 1280 Main Street West, Hamilton, Ontario, Canada L8S 4K1; Fax: 905-522-0935; email: hartb@mcmaster.ca. Applications by email are preferred.

For the 2012 ASL European Summer Meeting, applications and recommendations should be received before the deadline of March 23, 2012, by the Organizing Committee: LC2012, c/o Alex Wilkie, School of Mathematics, The Alan Turing Building, University of Manchester, Manchester M13 9PL, UK; email: lc2012@manchester.ac.uk.

For ASL student member travel grants to ASL or ASL-sponsored meetings (other than the 2012 North American Annual Meeting and the 2012 European Summer Meeting), 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.

- 2011-12 ASL Winter Meeting (with APA). December 27–30, 2011, Washington, D.C. This meeting will be held jointly with the Annual Meeting of the Eastern Division of the American Philosophical Association. Two invited sessions are planned. The first, on Dynamical Semantics, includes the speakers N. Charlow and W. Starr. In the second session, on Lambda calculi, type systems, and applications to natural language, the speakers are: C. Barker, O. Kiselyov, and C.-c. Shan. The members of the Program Committee are M. Glanzberg and P. Kremer (Chair). The complete program for this meeting is included in this Newsletter mailing.
- 2011-12 ASL Winter Meeting (with Joint Mathematics Meetings). January 6-7, 2012, Boston, Massachusetts. This meeting will take place in conjunction with the Joint Mathematics Meetings. The invited speakers include: J. Baldwin, J. Franklin, C.W. Henson, J. Knight, R. Kossak, D. Sinapova, and W.H. Woodin. There also will be an AMS-ASL Special Session on *The Life and Legacy of Alan Turing*, organized by D. Dzhafarov, J. Hirst, and C. Mummert. The members of the Program Committee are N. Dobrinen, P. Fejer, and P. Scowcroft (Chair). The complete program for this meeting is included in this Newsletter mailing.

• 2012 ASL North American Annual Meeting. March 31-April 3, 2012, Madison, Wisconsin. The twentythird annual Gödel Lecture will be delivered by J. Steel. The invited speakers are: A. Dow, I. Goldbring, W. Goldfarb, J. Miller, A. Montalban, T. Pitassi, G. Sargsyan, S. Starchenko, and M. Vardi. The following special sessions are planned (with organizers in parentheses): Computability (L. Bienvenu and J. Reimann), Model theory (M.C. Laskowski), Set theory (D. Raghaven and J. Steprans), Structural proof theory and computing (D. Miller), and the history of logic on the centenary of the birth of Jean van Heijenoort (T. Drucker). The members of the Program Committee are: J. Avigad, B. Hart (Chair) A. Miller, G. Nadathur, and J. Reimann. The Local Organizing Committee includes: U. Andrews, M. Cai, S. Lempp (Chair), A. Miller, and J. Miller. 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.math. wisc.edu/~asl2012/.

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 5, 2011, 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.

2012 ASL European Summer Meeting (Logic Colloquium '12). July 12-18, 2012, Manchester, England. Tutorials (with topics in parentheses) will be offered by: I. Farah (set theory), A. Montalban (computability theory), and B. Zilber (model theory). The invited speakers include: J. Avigad, A. Blass, S. Buss, G. Jones, P. Komjath, L. Levin, G. Longo, M. Magidor, Z. Sela, V. Shavrukov, A. Shlapentokh, and M. Soskova. In addition, H. Friedman will deliver the Goodstein Lecture and A. Macintyre will deliver the Turing Lecture, in celebration of the centenaries of the births of R.L. Goodstein and A.M. Turing. The Program Committee members are: U. Abraham, L. Beklemishev, B. Cooper, P. D'Aquino (Chair), A. Dawar, G. Sundholm, M. Tressl, and F. Wolter. The Local Organizing Committee includes: S. Borovik, M. Kambites, J. Paris, M. Prest, M. Tressl, A. Vencovska, A. Wilkie (Chair), and G. Wilmers. For further information, visit http://www.mims.manchester. ac.uk/events/workshops/LC2012/index.php.

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 March 30, 2012 at the official meeting address: LC2012, c/o Alex Wilkie, School of Mathematics, The Alan Turing Building, University of Manchester, Manchester M13 9PL, UK; email: lc2012@manchester.ac.uk.

- 2013 ASL North American Annual Meeting. May 8-May 11, 2013, Waterloo, Ontario, Canada. The Local Organizing Committee includes: S. Ben-David, B. Csima (Chair), D. DeVidi, R. Moosa, and R. Willard.
- 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. 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

• Twelfth Asian Logic Conference. December 15–20, 2011, Wellington, New Zealand. This meeting will be held jointly with a meeting of the Australasian Association for Logic (AAL). The tutorial speakers are M. Grohe and Z. Sela. The invited plenary speakers include: M. Detlefsen (joint with AAL), I. Goldbring, N. Greenberg, W. Guohua, H. Ono (joint with AAL), G. Sargsyan, and A. Tsuboi. Special sessions will be offered on the following topics (with organizers in parentheses): algorithmic randomness (R. Downey and A. Nies), computability and algebraic structures (R. Downey), logical aspects of graphs and matroids (G. Whittle), modal logic (R. Goldblatt and E. Mares), and set theory (Q. Feng and H. Woodin). There will be an additional workshop for students on December 14th featuring the conference tutorial speakers. The Program Committee includes: T. Arai, R. Downey, Q. Feng, S.S. Goncharov, B. Kim, G. Restall, and Y. Yue. The Local Organizing Committee members

are: C. Bailey, R. Downey, N. Greenberg, and G. Whatarau. For further information, visit http://msor.victoria.ac.nz/Events/ALC2011/WebHome.

- Seventh International Symposium on Foundations of Information and Knowledge Systems (FoIKS 2012). March 5–9, 2012, Kiel, Germany. The Co-chairs of the Program Committee are T. Lukasiewicz and A. Sali, and the Local Organization Chair is B. Thalheim. For more information, visit http://2012.foiks.org/.
- Young Set Theory Workshop 2012. April 30-May 4, 2012, Luminy, France. The aim of this conference, supported by the Centre International de Rencontres Mathématiques (CIRM, which is hosting the meeting) and the INFTY Program (in turn funded by the European Science Foundation), 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: I. Farah, A. Louveau, I. Neeman, and S. Todorcevic. Invited talks by young researchers will be given by: C. Brech, S. Cox, V. Fischer, D. Ikegami, C. Martinez-Ranero, D. Milovich, and F. Schlutzenberg. The members of the Scientific Committee are: D. Raghavan, A. Rinot, G. Sargsyan, P. Schlicht, A. Törnquist, and T. Tsankov (Chair). The Organizing Committee includes J. Melleray, L.N. Van The, and M. Viale. For further information, visit http://math.univ-lyon1.fr/~melleray/ yst2012-home.html.
- Turing Centenary Conference; Computability in Europe 2012 (CiE 2012)—How the World Computes. June 18–23 2012, Cambridge, England. The eighth in a series organized within the network "Computability in Europe" (CiE), CiE 2012 is one of a series of special events, running throughout the Alan Turing Year, celebrating Turing's unique impact on mathematics, computing, computer science, informatics, morphogenesis, philosophy and the wider scientific world. Its central theme is the computability-theoretic concerns underlying the broad spectrum of Turing's interests, and the contemporary research areas founded upon and animated by them. Invited speakers include: D. Aharonov, V. Becher, L. Blum, R. Downey, Y. Gurevich, J. Hartmanis, A. Hodges, R. Jozsa, S. Kauffman, J. Murray, S. Shieber, P. Smolensky, I. Stewart, and L. Valiant. Special sessions are planned on the following topics (with chairs in parentheses): computational models after Turing: the Church-Turing Thesis and beyond (M. Davis and W. Sieg); cryptography, complexity, and randomness (R. Downey and J. Lutz); morphogenesis/emergence as a computability theoretic phenomenon (P. Mani and P. Sloot); open problems in the philosophy of information (P. Adriaans and B. Löwe); the Universal Turing Machine and the history of the computer (J. Copeland and J. Tucker); and, the Turing Test and thinking machines (M. Bishop and R. Verbrugge). The Program Committee Co-Chairs are S.B. Cooper and A. Dawar, and the Chair of the Local Organizing Committee is A. Dawar. For more information, visit http://www.cie2012.eu.

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

• Model Theory of Difference Fields and Applications. December 5–9, 2011, Orsay, France. This workshop aims to promote interactions among model theorists, algebraic geometers, and number theorists on topics in difference fields, their model theory and its applications to Diophantine geometry and algebraic dynamics. Minicourses are planned on the following topics: Introduction to the needed basic notions of model theory, Basic algebraic properties of difference fields and the model theory of algebraically closed fields with an automorphism (ACFA), The Zilber trichotomy principle in ACFA and its applications to Diophantine geometry, Abelian varieties and difference varieties: the proof of Manin-Mumford by Rössler-Pink, and an Introduction to algebraic

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CALENDAR OF OTHER MEETINGS (continued)

dynamics and the applications of the model theory of ACFA to algebraic dynamics. In addition there will be a short series of talks on the main results in Hrushovski's paper, *The Elementary Theory of the Frobenius Automorphisms* and its applications. Invited speakers include: J.B. Bost, A. Chambert-Loir, Z. Chatzidakis, M. Hils, Y. Laszlo, D. Rössler, and T. Scanlon. The organizers are F. Benoist and E. Bouscaren. Prior knowledge of model theory is not assumed, and introductions to the areas of application will also be provided. Graduate students working in any of the areas concerned are welcome; a limited number of grants for living expenses will be available. For more information, visit http://www.math.u-psud.fr/~bouscare/workshop_diff/index.html#english.

- Second British Postgraduate Model Theory Conference. January 4-6, 2012, Oxford, England. This meeting is mainly aimed at postgraduate students and postdocs working in model theory and related subject areas, but anybody interested in the subject is welcome. A three-hour short course will be given by K. Tent. Plenary lectures by A. Macintyre and B. Zilber are also planned. The organizers include: W. Anscombe, B. Elsner, R. Henderson, F. Jahnke, C. Kestner, and A. Yim. For further information, visit http://tcc.maths.ox.ac.uk/bpgmt12.
- Mid-Atlantic Mathematical Logic Seminar (MAMLS). January 13-15, 2012, Deerfield Beach, Florida. This event, hosted by Florida Atlantic University, is part of Alan Turing Year, commemorating the centenary of his birth (see http://www.mathcomp.leeds.ac.uk/turing2012/). There will be a special session dedicated to Turing's life and times, which will include an address by his biographer David Leavitt, as well as other surprises. The invited speakers for the scientific portion of the meeting include: W. Calvert, M. Davis, D. Dzhafarov, J. Hamkins, P. Hofstra, R. Miller, A. Nerode, G. Sacks, A. Scedrov, W. Sieg, and R. Soare. For further information, including information about funding for participants, write to R. Lubarsky (email: Lubarsky.Robert@comcast. net) or visit http://math.fau.edu/richman/FAU2012.html.
- Second Set Theory and General Topology Week (STW 2012). February 27-March 2, 2012, Salvador, Bahia, Brazil. This meeting is in honor of F. Tall, on the occasion of his retirement. The invited speakers include: O. Alas, L. Aurichi, I. Castro-Pereira, R. Exel, L. Junqueira, C. Morgan, C. di Prisco, F. Tall, R. de la Vega, Daniel Vendrúscolo, and A. Villaveces. The President of the Scientific Committee is O. Alas, and the Chair of the Organizing Committee is S.G. da Silva. For further information, visit http://www.veraomat.ufba. br/Topologia.htm.
- Eighteenth International Conference on Logic for Programming Artificial Intelligence and Reasoning (LPAR-18). March 10-15, 2012, Merida, Venezuela. The Program Committee Chairs are N. Bjorner and A. Voronkov, the Conference Chair is G. Sutcliffe, and the Local Arrangements Chair is B. Abraham. For more information, visit http://research.microsoft.com/en-us/um/redmond/events/lpar18/.
- Newton Institute Workshop: Logical Approaches to Barriers in Complexity II. March 26-30, 2012, Cambridge, England. This workshop, organized by A. Beckmann and A. Dawar, is associated with the sixmonth Newton Institute program on "Semantics and Syntax: A Legacy of Alan Turing". It will focus on logical descriptions of complexity, i.e., descriptive complexity, propositional proof complexity, and bounded arithmetic. The workshop will especially focus on work that draws on methods from the different areas which appeal to the whole community. Tutorials will be offered by S.R. Buss and S. Kreutzer. The invited speakers include A. Atserias, Y. Chen, S. Dantchev, A. Durand, B. Holm, J. Kontinen, J. Krajíček, P.T. Nguyen, R. Santhanam, N. Schweikardt, and N. Thapen. The deadline for applications to participate in this workshop is January 26, 2012. For further information contact A. Beckmann (email: a.beckmann@swansea.ac.uk) or visit http://www. newton.ac.uk/programmes/SAS/sasw01.html. For more information on the "Semantics and Syntax: A Legacy of Alan Turing" program, visit http://www.newton.ac.uk/programmes/SAS/index.html.
- North American Summer School in Logic, Language, and Information (NASSLLI 2012). June 18-22, 2012, Austin, Texas. This event, loosely modeled on the long-running ESSLLI series in Europe (see http://www.esslli2012.pl), will consist of courses and workshops with a focus on interdisciplinary work involving

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CALENDAR OF OTHER MEETINGS (continued)

logic, linguistics, computer science, cognitive science, philosophy, and artificial intelligence. The Program Committee Co-chairs are C. Areces and V. de Paiva. The Steering Committee includes: D. Beaver, P. Kolaitis, L. Moss, V. de Paiva, S. Shieber, and M. Vardi. For more information, visit http://nasslli2012.com/.

- Twenty-fourth European Summer School in Logic, Language and Information (ESSLLI-2012). August 6–17, 2012, Opole, Poland. 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 A. Herzig and the Local Co-chair is A. Pietryga. The Organizing Committee Co-Chairs are J. Czelakowski and U. Wybraniec-Skardowska. ESSLLI-2012 is organized under the auspices of the European Association for Logic, Language and Information (FoLLI). For more information about ESSLLI-2012 visit http://www.esslli2012.pl; for further information about FoLLI, visit http://www.folli.org.
- Advances in Modal Logic (AiML) 2012. August 22-25, 2012, Copenhagen, Denmark. This is the ninth conference in a series aimed at presenting an up-to-date picture of the state of the art in modal logic and its many applications. The Co-chairs of the Program Committee are S. Ghilardi and L. Moss. The Organizing Committee Co-chairs are T. Bolander and T. Brauner. The deadline for submission of full papers is March 16, 2012, and for abstracts for short presentations the deadline is June 1, 2012. For further information visit http://hylocore.ruc.dk/aiml2012.
- East-Asian School on Logic, Language, and Computation (EASLLC 2012). August 27-31, 2012, Chongqing, China. This is a school for graduate students and postdoctoral scholars, similar in spirit to the annual ESSLLI summer schools in Europe and also to the Sino-European Summer School on Logic, Language, and Computation, which took place in Guangzhou, China in December 2010. The program will consist of nine courses in three different tracks: logic, language, and computation. It will also feature one plenary evening talk for a wider audience. For the logic track the lecturers include: F. Liu, R. Parikh, and J. Väänänen. The lecturers for the language track are: P. Jacobson, G.K. Pullum, and D. Westerståhl. For the computation track, the speakers are: K.R. Apt, P.G. Kolaitis, and M.Y. Vardi . Program Committee Chair is P.G. Kolaitis, and the Local Organizers are M. Guo, M. Ma, J. Wang, and X. Tang. An international conference will take place on August 25 and 26, 2012, prior to the school. For further information, visit http://home.hib.no/prosjekter/easllc2012/.

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

- 2011 Ackermann Award to Benjamin Rossmann. The Ackerman Award, the annual European Association for Computer Science Logic (EASCSL) Outstanding Dissertation Award for Logic in Computer Science, has been given in 2011 to Benjamin Rossmann for his M.I.T. thesis, *Average Case Complexity of Detecting Cliques*, written under the supervision of M. Sudan. The jury included: A. Atserias, T. Coquand, A. Dawar, J.-P. Jouannaud, D. Niwinski, L. Ong, P.-L. Curien, and W. Thomas, with J. Makowsky as secretary. For the years 2010-2013, the Award is sponsored by the Kurt Gödel Society.
- Call for papers: Automated Reasoning and Mathematics: Essays in Memory of William McCune. This volume will consist of articles presenting research in all aspects of automated reasoning and its applications to mathematics. It is expected that the book will be published in the Festschrift subseries of the Springer LNAI/LNCS series. The deadline for submission is March 1, 2012. For further information, visit http://profs. sci.univr.it/~bonacina/McCuneBook/McCuneBook.html.

The next Newsletter will be sent in January 2012. Items to be included should reach the Secretary-Treasurer before January 10, 2012.

Submitted by Charles Steinhorn, Secretary-Treasurer.