



ASSOCIATION FOR SYMBOLIC LOGIC

BUSINESS OFFICE: ASL, DEPT. OF MATHEMATICS, UNIV. OF CONNECTICUT
341 MANSFIELD ROAD, U-1009, STORRS, CT 06269-1009, USA
FAX: 1-860-486-4238; EMAIL: asl@uconn.edu
WEB: <http://www.aslonline.org>

ASL NEWSLETTER

November 2018

- **The 2018 ASL Election.** Enclosed with this newsletter is the ballot for the 2018 election for the President of the ASL, the Vice President, two members of the Executive Committee, and two members of the Council. For those receiving this newsletter via email, the ballot is included as a separate pdf attachment. All terms are for three years beginning January 1, 2019. The Nominating Committee consisted of Veronica Becher, Michael Benedikt, Joerg Brendle, Maryanthe Malliaris, Paolo Mancosu, Michael Rathjen, Richard Shore, Charles Steinhorn, Alasdair Urquhart (chair), and Alex Wilkie.
- **2018 Rutherford Medal Awarded to Rod Downey.** Prof. Rod Downey of Victoria University, in Wellington, NZ, has been awarded the Rutherford Medal by Royal Society Te Aprangi for his research into mathematical logic and computer science. The Rutherford Medal is the highest honor awarded by the Society, for an exceptional contribution to advancing and promoting knowledge for the benefit of New Zealand. The award announcement cited Downey's work in parametrized complexity and algorithmic randomness.
- **ASL Secretary-Treasurer and Office Transition.** Charles Steinhorn stepped down as ASL Secretary-Treasurer on May 31, 2018, and the ASL Administrator, Fran Whitney, retired at the end of April 2018. Each had served in those roles for over fifteen years. The ASL Council approved the appointment of Russell Miller (CUNY) and Reed Solomon (Connecticut) to share the Secretary-Treasurer duties for the remainder of Steinhorn's term that ends on January 1, 2020. Thereafter, Miller and Solomon will be eligible for election to (renewable) 3-year terms. The ASL office has moved from Vassar to the University of Connecticut, and Shannon Miller has been hired as the new ASL Administrator. The new ASL office email address is asl@uconn.edu; the new postal address is: ASL, Department of Mathematics, University of Connecticut, 341 Mansfield Road, U-1009, Storrs, CT 06269-1009, USA. The new telephone number is: 1-860-486-3989, and the new fax number is 1-860-486-4238.
- **Call for Proposals: 2020 AMS-ASL Joint Special Session.** The ASL Committee on Logic in North America seeks proposals for an AMS-ASL Joint Special Session to be held at the Joint Mathematics Meetings in Denver, Colorado, January 15–18, 2020. Proposals or requests for information should be sent to the Committee Chair, Natasha Dobrinen (natasha.dobrinen@du.edu). The deadline for receipt of proposals is January 7, 2019.
- **Call for Proposals: 2021 North American Annual Meeting.** The ASL Committee on Logic in North America requests proposals for the 2021 ASL North American Annual meeting to be held some time during the first five months of 2021. 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 between midwest (Macomb 2018), east (New York City 2019) and west (Irvine 2020). Thus, for 2021, the committee seeks a location in the midwest. However, any reasonable proposal will be considered. For more information, interested parties should contact the Committee Chair, Natasha Dobrinen (email: natasha.dobrinen@du.edu), no later than November 30, 2018.
- **Discounted Dues for New ASL Individual Members.** The ASL offers a 50% discount on dues for new individual members during each of the first two years of membership. For more information, visit <http://aslonline.org/membership/individual-asl-membership/>.
- **Free Individual ASL Membership Program for Individuals in Developing Economies.** The ASL invites applications for an initial two-year free membership in the Association for new and lapsed members from countries classified as developing economies. The list includes Brazil, Bulgaria, China, Colombia, India, Iran, South Africa, and many other countries classified as “upper middle income” or below on the World

Bank's annual list for four of the last five years. To apply, please send an email to the ASL Committee on Membership at asl-membership@googlegroups.com. Include your name, full mailing address, and your academic affiliation. For information about the ASL and membership benefits, visit <http://aslonline.org/membership/outreach-memberships/>. After the initial two-year period new members under this program will pay the reduced membership dues, currently at US\$18, as long as their country of residence is on the ASL's list of developing economies (see <http://aslonline.org/membership/outreach-memberships/world-bank-list-as-of-october-2018-for-2019-memberships/>).

- **Reduced Dues for Individuals and Institutions in Developing Economies.** The ASL offers reduced dues for individuals and institutions in developing economies. For 2018, 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 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 more information, visit <http://aslonline.org/membership/outreach-memberships/> or contact the ASL Business Office: ASL, Department of Mathematics, University of Connecticut, 341 Mansfield Road, U-1009, Storrs, CT 06269-1009, USA. Tel: 1-860-486-3989; Fax: 1-860-486-4238; email: asl@uconn.edu.
- **Emeritus ASL Individual Membership.** A new category of Emeritus membership has been established for retired individuals who have been members of the Association for at least fifteen (15) years, the dues for which are set at 50% of regular membership dues. Emeritus members receive the same benefits as a regular ASL member. For more information, visit <http://aslonline.org/membership/individual-asl-membership/>.
- **New ASL Books.** To see all new books in the ASL's *Lecture Notes in Logic* and *Perspectives in Logic* series, visit <http://aslonline.org/books/lecture-notes-in-logic/> for LNL volumes and <http://aslonline.org/books/perspectives-in-logic/> for Perspectives volumes.
- **Book and Journal Discounts for ASL Members.** Several publishers offer discounts on books and journals to ASL members. For a detailed description of these discounts, visit <http://aslonline.org/books/book-discounts-for-asl-members/>, or write to the ASL Business Office.
- **Ph.D. Abstracts in Logic to be Published in the Bulletin of Symbolic Logic.** This year the Association for Symbolic Logic will begin publishing abstracts of Ph.D. theses in logic in the *Bulletin of Symbolic Logic*. Christian Rosendal is the editor for this new section of the *BSL*. For further information, visit <http://aslonline.org/LogicThesisAbstracts.html>.

ASL MEETINGS

- **Student Travel Awards: The 2019 ASL North American Meeting and other ASL or ASL-Sponsored Meetings.** The ASL will make available modest travel awards to graduate students in logic so that they may attend the 2019 ASL North American Annual Meeting at the CUNY Graduate Center in New York City. Student members of the ASL 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 in accordance with the Fly America Act. Application by email is encouraged; put "ASL travel application" in the subject line of your message.

Newsletter continued on separate sheet

ASL MEETINGS (continued)

For the 2019 ASL North American Annual Meeting, applications and recommendations should be received before the deadline of February 15, 2019 by the Program Chair Wesley Holliday, email wesholliday@berkeley.edu. Applications may only be submitted by email.

For ASL student member travel grants to ASL or ASL-sponsored meetings (other than the North American Annual Meeting and the European Summer Meeting), applications and recommendations must be received at least three months prior to the start of the meeting at the ASL Business Office: ASL, Department of Mathematics, University of Connecticut, 341 Mansfield Road, U-1009, Storrs, CT 06269-1009, USA; Fax: 1-860-486-4238; email: asl@uconn.edu. Decisions will be communicated at least two months prior to the meeting.

- **2018-19 ASL Winter Meeting (with Joint Mathematics Meetings).** *January 18–19, 2019, Baltimore, Maryland.* This meeting will take place in conjunction with the Joint Mathematics Meetings taking place January 16-19, 2019. The confirmed invited speakers are: N. Dobrinen, D. Cenzer, S. Goncharov, J. Krueger, M.C. Laskowski, D. Marker and J. Marikova. The members of the Program Committee are S. Cox, V. Harizanov (chair), and A. Kolesnikov. The Joint Mathematics Meetings program includes two joint AMS-ASL special sessions: *Definability and Decidability Problems in Number Theory*, organized by K. Eisentraeger, D. Haskell, J. Park, and A. Shlapentokh; and, *Algorithmic Dimensions and Fractal Geometry*, organized by J. Lutz and E. Mayordomo. There also will be two AMS special sessions of interest to logicians: *Recent Advances and Trends in Computable Structure Theory (in honor of Jeff Remmel)*, organized by J. Chubb and T. McNicholl, and *Recent Advances in Regularity Lemmas*, organized by G. Conant, R. Patel, and J. Wolf. The complete program for this meeting is included as a pdf attachment for those receiving the Newsletter via email, and is available at <http://aslonline.org/meetings/>. For further information, visit <http://jointmathematicsmeetings.org/jmm>.
- **2019 ASL Winter Meeting (with APA).** *February 20–23, 2019, Denver, Colorado.* This meeting will be held jointly with the Annual Meeting of the Central Division of the American Philosophical Association. The members of the Program Committee are K. Bimbo (chair), P. Girard, and M. Rossberg. The speakers in the three invited sessions are: *Relevance logic*, J.M. Dunn, E. Mares and A. Urquhart; *Philosophy of mathematics*, P. Blanchette, D. DeVidi and P. Mancosu; and *Modal/intensional logic*, N. Gratzl, H. Leitgeb, and G. Restall. The complete program for this meeting is included as a pdf attachment for those receiving the Newsletter via email, and is available at <http://aslonline.org/meetings/>. For further information, visit https://www.apaonline.org/m/event_details.asp?id=968457.
- **2019 ASL North American Annual Meeting.** *May 20–23, 2019, New York, New York.* The 2019 Annual Meeting will take place at the CUNY Graduate Center in New York City. The invited speakers are D. Bartosova, V. Fischer, L. Fortnow, D. Haskell, R. Iemhoff, J.P. Marquis, R. Patel, and M. Soskova. A tutorial will be given by J. Lutz. The members of the Program Committee are S. Buss, J. Franklin, W. Holliday (chair), E. Landry, A. Marks and J. Nagloo. The members of the Local Organizing Committee are E. Antonakos (co-chair), S. Artemov, A. Dolich, S. Friedman (co-chair), G. Fuchs, and J. Hamkins. 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 February 15, 2019, at the ASL Business Office, Department of Mathematics, University of Connecticut, 341 Mansfield Road, U-1009, Storrs, CT 06269-1009, USA; fax: 1-860-486-4238; email: asl@uconn.edu.
- **Sixteenth Asian Logic Conference.** *June 17–21, 2019, Nazarbayev University, Astana, Kazakhstan.* The invited speakers include S. Badaev, N. Bazhenov, Q. Feng, S. Fuchino, B. Kim, T. Kihara, B. Kulpeshov, D. Kuske, D. Macpherson, A. Pietarinen, T. Usuba and S. Zhiwei. Special sessions will be held in *Computability Theory*, *Model Theory*, *Set Theory*, *Logic in Computer Science* and *Philosophical Logic*. The members of the Local Organizing Committee are M. Mustafa and V. Tourassis. The members of the Program Committee are B. Baizhanov, J. Brendle, S.S. Goncharov (chair), G. Wu, K. Ikeda, B. Khousainov, A. Morozov, H. Ono, Y. Yang and L. Yu. For further information, visit <http://www.alc2019.kz> or email alc2019@nu.edu.kz.

Newsletter continued on reverse side

ASL MEETINGS (continued)

- **2019 European Summer Meeting (Logic Colloquium '19).** *August 11–16, 2019, Prague, Czech Republic.* The members of the Program Committee are A. Arana, L. Beklemishev (chair), A. Ciabattoni, R. Miller, M. Otto, P. Pudlák, S. Todorčević, and A. Wilkie. The members of the Local Organizing Committee are D. Chodounský (co-chair), P. Cintula, R. Honzík, P. Pudlák, N. Thapen and J. Verner (co-chair). This meeting will be co-located with the 16th CLMPST (see below, under Other Meetings).
- **2020 ASL North American Annual Meeting.** *March 25–28, 2020, Irvine, California.* The members of the Local Organizing Committee are M. Foreman, I. Goldbring (chair), 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 <http://aslonline.org/meetings/rules-for-abstracts/>. 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 who submitted them. Revised abstracts that follow the rules will be considered if they are received by the announced deadline.

ASL SPONSORED MEETINGS

- **Cantor Meets Robinson: Set Theory, Model Theory, and Their Philosophy.** *December 12–15, 2018, Campinas, Brazil.* The topic of the conference is the interplay between set theory and model theory, both from a mathematical and a philosophical perspective, with particular emphasis on forcing. The Program Committee includes: O. Alas, R. Bianconi, C. Brech, M. Dzamonja, W. Hodges, L. Incurvati, T. Meadows, C. di Prisco, and S. Walsh. The local organizers are E. Almeida, E. Bezerra, R. Freire, S. Jockwich, H. Mariano, C. Mortari, B. Ramos, J.V. Schmidt, and G. Venturi (chair). Attendance is free. For organizational reasons registration before November 1, 2018, by email to cantormeetsrobinson@gmail.com, is highly recommended. (ASL Sponsored Meeting.)
- **Thirteenth International Conference on Computability, Complexity and Randomness (CCR 2018).** *December 17–21, 2018, Santiago de Chile, Chile.* Topics include: algorithmic randomness, computability theory, computational complexity, Kolmogorov complexity, and reverse mathematics and logic. This year’s conference will be partially oriented to explore connections between these topics and the theory of dynamical systems. The invited speakers are: F. Cucker, M. Hoyrup, T. Kihara, B. Kra, N. Lutz, A. Maass, K. M. Ng, and P. Shmerkin. Tutorials will be offered by S. Figueira and A. Gajardo. The Program Committee includes: V. Becher (Co-Chair), M. Braverman, P. Gács, N. Greenberg, A. Montalbán, C. Rojas (Co-Chair), H. Towsner, and L. Westrick. The Local Organizing Committee members are: J. Aliste, V. Becher, and C. Rojas. For more information, visit <http://www.mat-unab.cl/~ccr2018/>. (ASL Sponsored Meeting.)
- **Syntax Meets Semantics (SYSMICS 2019)** *January 21–25, 2019, Amsterdam, the Netherlands.* The 2019 SYSMICS conference will focus on interactions between syntactic and semantic methods in substructural and other non-classical logics. Invited speakers include B. Afshari, G. Bezhanishvili, M. Campercholi, S. Ghilardi, S. van Gool, T. Kroupa, V. de Paiva, and A. Vidal. The lead organizer is N. Bezhanishvili. For more information, visit <http://events.illc.uva.nl/SYSMICS2019>. (ASL Sponsored Meeting.)
- **Eleventh PhDs in Logic Conference.** *April 24–26, 2019, Mathematical Institute of the University of Bern, Switzerland.* This interdisciplinary conference is organized by graduate students and aims to involve graduate students and early postdocs from all over the world. The conference accepts contributions from topics in mathematical logic, philosophical logic, and logic in computer science. It includes tutorials by established researchers as well as short presentations by PhD students, master students, and early postdocs. The organizers are A. Colacito, E. Lehmann, N. Savi, O. Tuyt and A. Novaro. Visit <https://mathsites.unibe.ch/phdlogic2019/> for more information. (ASL Sponsored Meeting.)

Newsletter continued on separate sheet

ASL SPONSORED MEETINGS (continued)

- **European Summer School in Logic, Language, and Information (ESSLLI 2019)** *August 5–16, 2019, Riga, Latvia.* The 31st ESSLLI will be held in Riga on August 5–16, 2019. The Program Committee includes L. McNally (chair) and J. Škilters (local co-chair). The Organizing Committee is chaired by J. Borzovs and co-chaired by L. Zariņa. For more information visit <http://esslli2019.folli.info/> or write to esslli2019@lu.lv. (ASL Sponsored Meeting.)

CALENDAR OF OTHER MEETINGS

- **Reflections on Set Theoretic Reflection, in celebration of Joan Bagaria's 60th birthday** *November 16–19, 2018, Sant Bernat, Montseny, Catalonia.* This set theory conference, in celebration of Joan Bagaria's 60th birthday, is organised by the Institute of Mathematics of the University of Barcelona in partnership with the Clay Mathematics Institute. Keynote Speakers include P. Koellner (Harvard), P. Larson (Miami OH), M. Magidor (Jerusalem), J. Väänänen (Helsinki and Amsterdam), and W.H. Woodin (Harvard). Organisers include: D. Asperó (UEA, Norwich), C. Casacuberta (IMUB, Barcelona), M.A. Mota (ITAM, México), and K. Tsaprounis (UAegean, Samos). For more information, visit <http://www.ub.edu/RSTR2018/>.
- **Very Informal Gathering of Logicians at UCLA (VIG 20)**. *February 1–3, 2019, Los Angeles, CA.* The 20th in a series of biennial logic meetings at UCLA, this event will celebrate the 50th anniversary of the 1967-68 Logic Year at UCLA and the many influences it had in Mathematical Logic. The invited speakers are J. Moore giving the Hjorth Lecture, J. Knight, K. Krupinski, C. Laskowski, M. Magidor, D.A. Martin, G. Sargsyan, B. Seward, T. Slaman, J. Steel, A. Tserunyan, R. Tucker-Drob, and H. Woodin. For further information about the meeting and travel grants, visit <http://www.logic.ucla.edu>.
- **Topology, Algebra, and Categories in Logic (TACL 2019)** *June 17–21, 2019, Nice, France.* The ninth conference in the TACL series focuses on three interconnecting mathematical themes central to the semantical study of logics and their applications: algebraic, categorical, and topological methods. The invited speakers include: S. Abramsky, J. van Benthem, M. Ern, S. van Gool, W. Holliday, A. Kurucz, T. Moraschini, D. Petrisan, H. Priestley, and B. Zilber. The conference will be preceded by a school on June 10-15 in Île de Porquerolles. The lecturers for the school are: M. M. Clementino, A. Joyal, G. Metcalfe, and Y. Venema. The Co-chairs of the Program Committee are S. Ghilardi and R. Jansana. The deadline for submission of abstracts for presentation at TACL 2019 is February 27, 2019. For more information, visit <https://math.unice.fr/tacl/2019/>.
- **Computability in Europe (CiE 2019)** *July 15–19, 2019, Durham, UK.* The *Computability in Europe* conference series focuses on new developments in computability and their underlying significance for the real world. This will be the fifteenth annual meeting of the series. The invited speakers include F. Cucker, U. Martin, A. Schönhuth, S. Smets, and L.B. Westrick, with tutorials given by M. Holzer and A. Mahboubi. For further information, visit <https://community.dur.ac.uk/cie.2019/>
- **15th International Conference of the Mathematics Education for the Future Project, Theory and Practice: An Interface or A Great Divide?** *August 4–9, 2019, Maynooth University, Kildare, Ireland.* The Full Preliminary Announcement and Call for Papers is available at <http://directorymathsed.net/public/Ireland/>. For further details, email alan@cdnalma.poznan.pl.
- **Congress of Logic, Methodology and Philosophy of Science and Technology (16th CLMPST)** *August 5–10, 2019, Prague, Czech Republic.* The 16th CLMPST will take place in Prague, August 5-10, 2019, organized under the auspices of the Division for Logic, Methodology and Philosophy of Science and Technology of the International Union for History and Philosophy of Science and Technology (DLMPST/IUHPST) by the Institute of Philosophy of the Czech Academy of Sciences. This meeting is co-located with the 2019 Logic Colloquium (see above, under ASL Meetings). The initial Call for Papers has been issued with a deadline of December 15, 2018.

Newsletter continued on reverse side

NEW BOOK (Also see <http://www.aslonline.org>.)

- **Logical Foundations of Cyber-Physical Systems.** Author: André Platzer (Springer, 2018, ISBN 978-3-319-63587-3), 659 pages. Cyber-physical systems (CPSs) combine cyber capabilities, such as computation or communication, with physical capabilities, such as motion or other physical processes. Cars, aircraft, and robots are prime examples, because they move physically in space in a way that is determined by discrete computerized control algorithms. Designing these algorithms is challenging due to their tight coupling with physical behavior, while it is vital that these algorithms be correct because we rely on them for safety-critical tasks. This textbook teaches undergraduate students the core principles behind CPSs. It shows them how to develop models and controls; identify safety specifications and critical properties; reason rigorously about CPS models; leverage multi-dynamical systems compositionality to tame CPS complexity; verify CPS models of appropriate scale in logic; and develop an intuition for operational effects. The book is supported with homework exercises, lecture videos, and slides. <http://www.springer.com/978-3-319-63587-3>

The next newsletter will be sent in January 2019. Items to be included should reach the Secretary-Treasurers before January 10, 2019.

Submitted by Russell Miller & Reed Solomon, co-Secretary-Treasurers.