



ASSOCIATION FOR SYMBOLIC LOGIC

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ASL NEWSLETTER

November 2023

- **The 2023 ASL Election.** Enclosed with this newsletter is the ballot for the 2023 election for two at-large members of the ASL Executive Committee and two at-large members of the ASL Council. All terms are for three years beginning January 1, 2024. For those receiving this newsletter via email, the ballot is included as a separate pdf attachment. Write-in votes are allowed. Please vote! Votes must be received by the deadline of December 31, 2023.

The 2023 Nominating Committee has nominated Wesley Holliday (UC-Berkeley) and Byunghan Kim (Yonsei University) for the Executive Committee positions and Carolin Antos (University of Konstanz) and Dana Bartosova (University of Florida) for the Council positions. No other nominations have been received. The Nominating Committee consisted of M. Benedikt, P. Blanchette, V. Fischer, D. Hirschfeldt, J. Knight (chair), F. Liu, and M. Soskova.

- **2023 Karp Prize will be awarded at the 2024 North American Annual Meeting.** John Steel has been named the winner of the tenth Carol Karp Prize, for his work in set theory, especially for his book *A Comparison Process for Mouse Pairs*. The prize will be awarded at the ASL North American Annual Meeting in May 2024, and a lecture on the prize-winning work will be delivered by Grigor Sargsyan at the award ceremony. The Karp Prize, established in 1973 in memory of Professor Carol Karp, is awarded every five years. The award is made by the Association, on the recommendation of the ASL Committee on Prizes and Awards, for a “connected body of research, most of which has been completed in the time since the previous prize was awarded.” The winner receives a \$5,000 cash award.
- **ASL membership renewal for 2024 is open.** Online renewal for 2024 is available at <https://www.cambridge.org/core/membership/asl>. Additionally, paper renewal forms are available at <http://aslonline.org/membership/individual-membership/>, that can be returned by snail mail or email. Members now have the option to choose, for each of our three journals individually, whether to receive print copies or only to have online access to the journal. To make this new arrangement possible, we have reduced the number of options for the term of membership, which will now be available for either a single year or five years. For those who hold multi-year memberships and wish to confirm the expiration date, please log in to your account with Cambridge University Press or send email to USmemberservices@cambridge.org.

We encourage all those whose memberships expire in 2023 to renew their memberships in a timely fashion! Many logicians, when becoming members of the ASL, opt out of receiving email from Cambridge U.P., which administers the membership program. In such cases, due to European Union regulations regarding opting-out, these members may not receive any electronic notification of the expiration of their memberships, and we know of cases where memberships have lapsed simply because the member was unaware of the expiration date. We believe that we have a better system in place now, still conforming to the EU regulations, but members who may have opted out of email should still pay particular attention and be sure to renew promptly.

- **Membership is now available to logicians in China.** The ASL continues to remind logicians that as of 2023 we can once again accept members from the People’s Republic of China. Under PRC regulations we remain prohibited from mailing journals to members in China. However, we now can offer online access to the ASL journals through Cambridge University Press for members in China. Logicians employed in China who are interested in joining the ASL as new members are encouraged to apply to the ASL Committee on Membership for a free initial two-year outreach membership by emailing their mailing address and professional

affiliation to asl-membership@googlegroups.com. After two years, outreach members should contact Shannon Miller at asl@uconn.edu to pay for continued outreach membership at USD 18 per year. Details are available at <https://aslonline.org/membership/individual-membership/>. Questions about this arrangement can be directed to Shannon Miller, Russell Miller or Reed Solomon.

Logicians in China, not being on the current membership list, may not see this Newsletter. We therefore encourage all ASL members to spread the news of this welcome change, especially to colleagues based in China.

- **Attachment: Links to Articles.** For the convenience of our members, the e-mail edition of this Newsletter includes an attachment that provides titles of many articles currently in press and active links for downloading them from our journal websites. This attachment is also available at <https://aslonline.org/other-information/617-2/>.
- **Open-Access Options for ASL Journals.** Authors of research articles in logic, who may wish to consider submitting those articles to the *Bulletin of Symbolic Logic*, the *Journal of Symbolic Logic*, or the *Review of Symbolic Logic*, should be aware that these journals now offer the option of open-access publication. Indeed, many universities now have contracts with Cambridge University Press, our publisher, that allow their researchers to publish open-access articles at no charge. These are often called *read-and-publish agreements* or *transformative agreements*.

All three journals are now hybrid. They still accept article submissions exactly as before, and they will still publish accepted articles just as before if the author does not opt for open access. However, for authors with mandates to publish open-access articles (or who simply prefer to do so), this option is also available. Details appear at <https://www.cambridge.org/core/services/open-access-policies>. To ascertain whether your university is among those with an agreement as described above, use <https://www.cambridge.org/core/services/open-access-policies/read-and-publish-agreements>.

- **ASL Sponsorship of Meetings.** The ASL often sponsors research meetings and conferences in logic, all over the world. Sponsorship is granted to those meetings that uphold high standards of scholarship and rigor and whose purpose is in concert with the mission of the ASL. Student members of the ASL may apply to the ASL for travel support to attend sponsored meetings, as described below, and a report on each sponsored meeting subsequently appears in the *Bulletin of Symbolic Logic*. Meeting organizers who are ASL members and wish to request ASL sponsorship of their meetings should do so at least five months before the beginning of the meeting, following the instructions at <http://aslonline.org/sponsorship-of-meetings/>.
- **Call for Conference Proposals.** The ASL Committee on Logic in North America requests proposals for the 2025 ASL North American Annual meeting to be held some time during the first five months of 2025. The committee seeks a university somewhere in North America and a local committee to host the meeting and handle the local arrangements. For more information, interested parties should contact the Committee Chair, Tom Scanlon (email: scanlon@math.berkeley.edu), ideally no later than December 15, 2023.

Additionally, the Committee on Logic in Europe seeks proposals for hosting the Logic Colloquium during the summer of 2025. Meanwhile, the Committees on Logic in East Asia and Oceania seek proposals for hosting the 2027 Asian Logic Conference, ideally to be received no later than January 1, 2024. Inquiries should be sent to the committee chairs: Andrew Arana for Europe (andrew.arana@univ-lorraine.fr) and Keita Yokoyama and Noam Greenberg for East Asia and Oceania respectively (y-keita@jaist.ac.jp and greenberg@sms.vuw.ac.nz).

- **Call for Proposals: 2025 JMM Special Session.** The ASL Committee on Logic in North America seeks proposals for an ASL Special Session to be held at the Joint Mathematics Meetings in Seattle, WA, on January 8–11, 2025. Proposals or requests for information should be sent to the Committee Chair, Tom Scanlon (scanlon@math.berkeley.edu). The deadline for receipt of proposals is February 15, 2024.

STUDENT TRAVEL AWARDS

- **Student Travel Awards: ASL and ASL-Sponsored Meetings.** Student members of the ASL may apply for travel grants to ASL and ASL-sponsored meetings. These meetings are identified in the listings below. 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; and (6) (voluntary) indication of your gender and minority status. Women and members of minority groups are strongly encouraged to apply. Application by email is encouraged; put "ASL travel application" in the subject line of your message.

Applications for the 2024 Logic Colloquium should follow the instructions at https://lc2024.se/travel_grants/ and be emailed to info@lc2024.se before the deadline of February 29, 2024. For all other meetings (including the North American Annual Meeting in May 2024; see page 4 below), applications and recommendations should be submitted via email to asl@uconn.edu or to the ASL Business Office (ASL, Dept. of Mathematics, Univ. of Connecticut, 341 Mansfield Road, U-1009, Storrs, CT 06269-1009, USA). They must be received at least three months prior to the start of the meeting. Decisions will be communicated at least two months prior to the meeting.

Official ASL meetings include the Logic Colloquium, the North American Annual Meeting, the Asian Logic Conference, the Simposio Latino Americano de Lógica Matemática, the ASL Winter Meeting, and the ASL-APA annual joint meeting. Many other logic meetings are sponsored by the ASL; these are listed on p. 5 below, separately from "Other Meetings."

The Logic Colloquium and the North American Annual Meeting are partially supported by funding from the National Science Foundation of the USA. For meetings outside of North America, the 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 in accordance with the Fly America Act. For these two meetings, applicants need not be members of the ASL. (For all other meetings, student membership in the ASL is a prerequisite for travel grant applications.)

It is hoped that NSF funding may also be available for the 2024 SLALM in Montevideo, Uruguay (see page 4). If so, it would be available to researchers (including students) based in the USA. Anyone interested in this funding should send an email to Russell.Miller@qc.cuny.edu promptly to indicate their interest, as high interest increases the probability that the NSF will offer funding.

ASL MEETINGS

- **2024 ASL Winter Meeting (at JMM)** *January 5–6, 2024, San Francisco, CA.* The 2024 ASL-JMM meeting will take place during the last two days of the 2024 Joint Mathematics Meeting, at the Moscone Center in San Francisco. The invited speakers are M. Harrison-Trainor (UIC), A. Hirvonen (Helsinki), F. Loeser (Sorbonne), T. Meadows (Irvine), D. Sinapova (Rutgers), S. Solecki (Cornell), and M. Vicaria (UCLA). The Program Committee consists of C. Freer, J. Kennedy, M. Malliaris (chair) and A. Marks. A program is attached to electronic copies of this Newsletter. The first two days of the JMM, January 3–4, will include the ASL Tutorial in Logic, presented by J. Steel and entitled "Large cardinals, determinacy, and inner models," as well as the ASL Special Session *Descriptive Methods in Dynamics, Combinatorics, and Large Scale Geometry*, organized by F. Shinko and J. Zomback, and the AMS Special Session *Computable Mathematics: A Special Session Dedicated to Martin D. Davis*, organized by W. Calvert, V. Harizanov, and A. Shlapentokh.

To participate, one must register for the entire Joint Mathematics Meeting, whose website is <https://www.jointmathematicsmeetings.org/jmm>.

- **2024 ASL Winter Meeting (with APA)** *January 15–18, 2024, New York, NY.* The 2024 ASL-APA meeting will be held in conjunction with the Eastern Division of the American Philosophical Association, at the Sheraton

New York Times Square in New York City. S. Artemov chairs the Program Committee. The plenary speakers are M. Fitting (CUNY), J. Hamkins (Notre Dame), A. Hattaingadi (Stockholm), B. Partee (Massachusetts, Amherst), S. Smets (Amsterdam), and T. Studer (Bern). A program is attached to electronic copies of this Newsletter. Please see <https://www.apaonline.org/events/EventDetails.aspx?id=1533429> by December 15, 2023 to register for this meeting. The deadline for student travel award applications has passed.

- **2024 ASL North American Meeting** *May 14–17, 2024, Ames, IA*. The 2024 ASL North American Meeting will take place at Iowa State University. The plenary speakers include M. Eskew (Vienna), K. Kosaian (Iowa), P. Kolaitis (Santa Cruz), T. Moraschini (Barcelona), R. Nagloo (UIC) and H. Towsner (Penn). Tutorials will be given by A. Tserunyan (McGill) and R. Willard (Waterloo). J. Steel will receive the 10th Carol Karp Prize for his work in set theory, especially in *A Companion Process for Mouse Pairs*, and G. Sargsyan will give a lecture on Professor Steel’s work. There will be special sessions on Algebraic Logic (organized by G. Bezhanishvili and J. Gil-Ferez), Computability Theory (R. Alvir and S. Lempp), Logic in Computer Science (L. Moss and S. Weinstein), Model Theory (M.C. Laskowski and A. Padgett), Set Theory (C. Conley and N. Trang), and Universal Algebra (C. Aten and K. Kearnes). Attached to electronic copies of this Newsletter is a poster advertising this meeting, which may be printed out and posted to help publicize it. Further information is available at <https://asl2024.sites.iastate.edu/>.

The program committee consists of B. Csima (chair), N. Galatos, A. Kruckman, T. McNicholl and I. Neeman. The local organizing committee consists of S. Basu, T. McNicholl (chair), K. Slutsky, E. Weber and K. Yvonne-Rozier. February 14, 2024 is the deadline for contributed talks and also for applications for student travel awards (see 2). Both should be sent to the ASL office (asl@uconn.edu). Abstracts should follow the “Rules for Abstracts” below. For this meeting, all students may apply to the ASL for NSF travel support, regardless of citizenship or ASL membership.

- **2024 Logic Colloquium (European Summer Meeting)** *June 24–28, 2024, Gothenburg, Sweden*. The 2024 Logic Colloquium will be hosted by the University of Gothenburg. T. Scanlon will deliver the 2024 Gödel Lecture. Tutorials will be presented by A. Dawar, A. Marcone, and A. Sipos, and the plenary speakers include D. Bekki, J. Franklin, J. Freitag, R. Iemhoff, S. Jackson, L. Kołodziejczyk, and P.-A. Melliès. Special sessions are planned in Applied Model Theory; Computable Structures; Logic, Language, and Computation; Philosophical Logic; Proof Theory; and Set Theory.

The members of the Programme Committee are B. Afshari (Gothenburg), G. Binyamini (Jerusalem, Israel), N. Dobrinen (Notre Dame, USA), U. Kohlenbach (chair; Darmstadt, Germany), F. Poggiolesi (Paris, France), K.M. Ng (Singapore), R. Solomon (Connecticut, USA), S. Toruńczyk (Warsaw, Poland), and M. Sadrazadeh (London, UK). The local organizing committee includes B. Afshari, R. Blanck, G. Curzi, F. Engström, M. Kasá, G. Leigh, and I. Di Liberti. For further information, including details about travel support for students and recent PhD’s, please see <https://lc2024.se>.

- **2024 Simposio Latino Americano de Lógica Matemática** *July 1-5, 2024, Montevideo, Uruguay*. The twentieth SLALM will take place in Montevideo, the capital of Uruguay. The members of the Program Committee are C. Brech, M. Busaniche, A. Caicedo, X. Caicedo Ferrer, L. Del Carmen González Huesca, D. Haskell, O. Malherbe, R. Miller, A. Montalbán (chair), A. Onshuus, H. Pastén, L. Pereira, and E. Pimentel.

As mentioned above, it is hoped that NSF funding may be offered for the 2024 SLALM. If so, then under NSF rules it would be available to researchers (including students) based in the USA. Anyone interested in this funding should send an email to Russell.Miller@qc.cuny.edu promptly to indicate their interest. High interest increases the probability that the NSF will fund the proposal for support for this meeting.

- **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/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

- **Zagreb Logic Conference 2024** *January 12–15, 2024, Zagreb, Croatia.* This conference, on the occasion of World Logic Day on January 14, will be hosted by the Faculty of Science of the University of Zagreb. The invited speakers include A. Bauer, M.J. Gabbay, and J. McKinna, and the local organizers are T. Adlešić, V. Čačić, M. Doko, and T. Perkov. The website is <https://sites.google.com/view/zlc24/home>.
- **17th International Conference on Computability, Complexity and Randomness** *March 11-15, 2024, Nagoya University, Nagoya, Japan.* CCR 2024 will bring together researchers in algorithmic randomness, computability theory, Kolmogorov complexity, computational complexity, and reverse mathematics and logic. The invited speakers are J. Aguilera, W. Calvert, L. Coregliano, M. Fujiwara, L. Ko, R. Miller, S. Park, and F. Zaffora Blando. The Program Committee consists of J. Brendle, J. Franklin (co-chair), J.L. Goh, T. Kihara (co-chair), M. Marchuk, A. Pauly, S. Selivanova, and K. Yokoyama. This conference is in cooperation with the Association for Women in Mathematics. Please see <https://sites.google.com/view/ccr2024/home> for more information.
- **Proofs, Rules, and Models** *April 11-12, 2024, St Andrews, Scotland.* This meeting, organized by the Metaphysics and Logic Research Group and the Medieval Logic Research Group at the Arché Philosophical Research Centre in St Andrews, will explore the relationship between proofs, rules, and meanings through the lens of proof-theoretic semantics. More details are available at <https://www.st-andrews.ac.uk/arche/event/workshop-proofs-rules-and-meanings/>.
- **30th Workshop on Logic, Language, Information and Computation** *June 10-13, 2024, Bern, Switzerland.* WoLLIC is an annual international forum on inter-disciplinary research involving formal logic, computing and programming theory, and natural language and reasoning. WoLLIC 2024 will be held in-person, organized by the Mathematical Institute and Institute for Computer Science of the University of Bern. More information will be available through www.wollic.org.
- **Workshop on Proof Mining 2024** *September 11-13, 2024, Darmstadt, Germany.* This workshop, specifically dedicated to proof mining, will include talks on the underlying methods from proof theory, in particular proof interpretations and finite type arithmetic, as well as applications in various forms. The local organizers are U. Kohlenbach, P. Pinto, and N. Pischke.

CALENDAR OF OTHER MEETINGS

- **South American Logic Meeting** *January 12–15, 2024, Cusco, Peru.* The First South American Logic Meeting (SALOME 1) will take place at the National University of Saint Anthony the Abbot in Cusco. It forms part of a project to develop logic in all its aspects in South America. Please see <https://sites.google.com/view/salome2024> for further information.
- **Memorial Lectures for Martin Davis** *January 26, 2024, New York, NY.* All are welcome to attend this special event in memory of Professor Martin Davis. There will be three lectures on his work from 1:00 - 2:30 pm, a memorial for Martin and Virginia Davis from 2:45 - 3:45 pm, and a reception afterwards from 4-6 pm. Preregistration is requested, ideally by January 15, using the website <https://cims.nyu.edu/dynamic/conferences/davis-memorial/>. The organizers are S. Cappell, R. Cole, E. Davis, M. Overton, and J. Spencer.

IN MEMORIAM

- **Peter H.G. Aczel (1941-2023)**

Peter Aczel, eminent logician, passed away on 1st August 2023 at his home in Manchester, UK.

Peter made outstanding contributions to several areas of mathematical logic, including recursion theory, proof theory, the theory of non-well-founded sets, constructive set theory, and type theory. His book *Non-well-founded sets*, published in 1974 by Stanford University, has become a landmark in the subject.

He obtained a Ph.D. in Mathematics from the University of Oxford in 1966 under the supervision of John Crossley, with a thesis entitled “(Three) Mathematical Problems in Logic.” Among other results, the thesis contains an early use of category theory in logic, to study functions on ordinals.

He joined the University of Manchester in 1969, where he remained until his retirement in 2008, forming with Mike Yates, Jeff Paris, George Wilmers and others the core of Manchester logic group for many years. During this time, he also made numerous extended international research visits and had especially close contact with the logic groups in Munich, Nijmegen and Stockholm. Peter was a fellow of the Swedish Collegium for Advanced Study in Uppsala in 2008/09 and a member of the Institute of Advanced Study in Princeton, participating in the special program on Univalent Foundations, in 2012/13.

His early work on recursion theory culminated in the invitation to write a chapter on inductive definitions in the *Handbook of Mathematical Logic* edited by John Barwise, published by North Holland in 1977. The chapter offers an example of the clarity of writing that he achieved throughout his career. After this, Peter’s interests focused on the foundations of constructive mathematics. In a series of seminal papers, published in 1978, 1982 and 1986, he introduced Constructive Zermelo-Fraenkel set theory (CZF), an extension of Myhill’s Constructive Set Theory, and showed how to interpret it in Martin-Löf constructive type theory. His subsequent major contributions include the introduction of Frege structures, the study of coalgebras in Theoretical Computer Science, and the development of pointfree topology within CZF. A book on Constructive Set Theory, written in collaboration with Michael Rathjen, is forthcoming.

Peter also served in numerous roles in the logic community, including as a member of the editorial boards of the *Journal of Symbolic Logic* and of the Cambridge University Press series *Cambridge Tracts in Theoretical Computer Science*.

He is survived by his wife Helen, their daughter Rosalind and his brother John. His colleagues in Manchester and internationally remember him not only for his outstanding contributions, but also his great modesty and profound kindness. He will be missed.

OTHER ANNOUNCEMENTS (Also see <http://aslonline.org/announce/>.)

- **Ph.D. Abstracts in the *Bulletin of Symbolic Logic*.** Since 2018, the *Bulletin of Symbolic Logic* has published abstracts of recent Ph.D. theses in logic. As of January 1, 2023, Sandra Müller is the editor for this section of the *BSL*. Please visit <http://aslonline.org/journals/the-bulletin-of-symbolic-logic/logic-thesis-abstracts-in-the-bulletin-of-symbolic-logic/> for further information or to inform the editor of a newly completed dissertation.
- **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, found at <https://aslonline.org/membership/world-bank-list/>, includes Brazil, Bulgaria, China (see p. 1), Colombia, India, 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. Visit <http://aslonline.org/membership/individual-membership/> for information about the ASL and membership benefits. After the initial two-year period, new members under this program pay the reduced membership dues, US\$18 for 2024, as long as their country of residence is on the ASL’s list of developing economies.
- **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, see <http://aslonline.org/membership/member-services-and-resources/> or write to the ASL Business Office.

The next newsletter will be mailed in January 2024. Items to be included should reach the Secretary-Treasurers or asl@uconn.edu by January 15, 2024.

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