

Association for Symbolic Logic

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ASL NEWSLETTER April 2012

• The 2011 Sacks Prize Awarded jointly to M. Cai and A. Day. The ASL Committee on Prizes and Awards (with R. Solomon replacing T. Slaman, who recused himself for these deliberations) has selected Mingzhong Cai of the University of Wisconsin, Madison and Adam Day of the University of California at Berkeley as the recipients of the 2011 Sacks Prize. The prize consists of a cash award plus five years free membership in the ASL for each awardee.

Cai received his Ph.D. in 2011 from Cornell University, under the supervision of Richard Shore. The Prizes and Awards Committee notes that his thesis, *Elements of Classical Recursion Theory: Degree-Theoretic Properties and Combinatorial Properties*, introduces powerful new techniques that are used to solve several longstanding open problems, among the most striking of which are the definability of array nonrecursiveness, and a solution to an old problem of Lerman's about the relation between minimal covers of minimal degrees and the standard jump classes.

Day received his Ph.D. in 2011 from Victoria University of Wellington under the supervision of Rodney Downey. The Committee cited that his thesis, *Randomness and Computability*, draws on the Russian and Western developments in algorithmic randomness, unifies them, and comes to new results straddling both points of view, among them a recursion theoretic analysis of Levin's neutral measure (done jointly with J. Miller), and a sharpening of one of the most famously difficult results in the theory of Kolmogorov complexity, Gac's theorem that monotone complexity and a priori entropy differ.

- Call for Proposals: 2014 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 Baltimore, January 15–18, 2014. 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 7, 2013.
- Call for Proposals: 2015 North American Annual Meeting. The ASL Committee on Logic in North America requests proposals for the 2015 ASL North American Annual Meeting, to be held sometime in the first five months of 2015. 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: midwest (Madison 2012), east (Waterloo 2013), west (to be determined 2014). Thus, for 2015 the committee seeks a location in the midwest. 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 November 5, 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.
- 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 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 European Summer Meeting in Manchester, England; see below for information about this meeting. 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 European Summer Meeting, applications and recommendations should be received before the deadline of April 30, 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 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.

• 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 following special sessions (with organizers in parentheses) also are planned: Computability, logical and physical (B. Cooper); Homotopy type theory (S. Awodey); Model theory (M. Tressl); Philosophy of mathematics and computer science (R. Turner); Proof theory (L. Beklemishev); and, Set theory (U. Abraham). 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, H. Simmons, 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 April 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.

• 2012-13 ASL Winter Meeting (with Joint Mathematics Meetings). January 11–12, 2013, San Diego, California. This meeting will take place in conjunction with the Joint Mathematics Meetings. The members of the Program Committee are M. Aschenbrenner, K. Easwaran, and M. Zeman (Chair). 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 September 7, 2012, 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.

- 2013 ASL North American Annual Meeting. May 8-May 11, 2013, Waterloo, Ontario, Canada. The members of the Program Committee are: S. Awodey, I. Farah (Chair), A. Kanamori, R. Moosa, J. Reimann, and P. Scott. 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

- Antalya Algebra Days XIV. May 16–20, 2012, Cesme, Turkey. This year the main topic of this conference series is model theory. There will be about twenty invited plenary talks, five hours of parallel session talks given by young researchers, and a poster session. The Program Committee includes: Z. Chatzidakis, P. Kowalski, M. Kuzucuoglu, A. Nesin, D. Pierce, A. Sinan Sertoz, S. Thomas, A. Topuzoglu, and S. Ünver. The Local Organizing Committee members are: A. Berkman, O. Beyarslan, P. Kowalski, and P. Ugurlu. For further information, visit http://www.aad.metu.edu.tr/.
- Fifteenth Latin American Symposium on Mathematical Logic (SLALM2012). June 4-8, 2012, Bogota, Colombia. Invited speakers include: J.M. Font, D. Haskell, D. Hirschfeldt, U. Kohlenbach, B. Löwe, A. Montalbán, J. Moore, D. Mundici, A. Onshuus, V. de Paiva, T. Scanlon, S. Thomas, and J. Väänänen. In addition to plenary talks, there will be special sessions on in the following areas (with organizers in parentheses: algebraic and non-classical logics R. Cignoli and F. Zalamea); model theory C. Steinhorn and A. Villaveces); recursion and computer science logic (X. Caicedo and R. de Queiroz), and, set theory (C. Di Prisco and R. de la Vega). The following tutorial courses (with lecturers in parentheses) will take place during the week preceding the meeting: Algebraic logic (N. Galatos); Model theory (H. Adler); and Set theory (A.E. Caicedo). The members of the Program Committee are: X. Caicedo (Chair), W. Carnielli, R. Cignoli, C. Di Prisco, R. Downey, A. Macintyre, M. Magidor, F. Miraglia, and C. Steinhorn. The Organizing Committee includes: A. Berenstein, X. Caicedo, L.J. Corredor, C. Di Prisco, R. de la Vega, J. Goodrick, J. Iovino, A. Onshuus, A. Villaveces, and F. Zalamea. Sponsors of SLALM2012, in addition to the ASL, include Universidad de los Andes, Universidad Nacional de Colombia, and Colciencias (the Administrative Department of Science, Technology and Innovation of Colombia). For further information please visit http://matematicas.uniandes.edu.co/eventos/SLALM2012/or write to slalm@uniandes.edu.co.
- Model Theory in Wrocław 2012. June 16–19, 2012, Wrocław, Poland. The invited speakers include: I. Ben Yaacov, J.D. Caicedo, E. Casanovas, J. Dobrowolski, L. van den Dries, G. Jones, T. Kaiser, I. Kaplan, D. Macpherson, J. Maříkova, L. Newelski, G. Onay, J. Ramakrishnan, S. Randriambololona, P. Tanović, and K. Tent. The Organizing/Scientific Committee members are P. Kowalski and K. Krupinski. For further information, visit http://www.math.uni.wroc.pl/~pkowa/wroclaw12.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 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/.
- 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. Maini 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.

- Twenty-seventh Annual IEEE Symposium on Logic in Computer Science (LICS 2012). June 25–28, 2012, Dubrovnik, Croatia. The LICS Symposium is an annual international forum on theoretical and practical topics in computer science that relate to logic in a broad sense. The Program Chair is N. Dershowitz, the General Chair is R. Alur, and the Conference Co-chairs are V. Lipovac and A. Scedrov. For further information, visit http://www2.informatik.hu-berlin.de/lics/lics/12/.
- Seventh International Conference on Computability, Complexity and Randomness (CCR 2012). July 2-6, 2012, Cambridge, England. This event will be held at the Isaac Newton Institute for Mathematical Sciences as a part of the semester-long Institute program, Semantics and Syntax: A Legacy of Alan Turing. The confirmed invited speakers include: G. Barmpalias, V. Brattka, A. Day, J. Hitchcock, M. Hoyrup, M. Koucký, A. Lewis, J. Lutz, A. Nies, A. Shen, S. Simpson, and D. Turetsky. The Co-chairs of the Program Committee are E. Mayordomo and W. Merkle. For further information, visit http://math.uni-heidelberg.de/logic/conferences/ccr2012/.
- 8th Scandinavian Logic Symposium 2012. August 20-21, 2012, Roskilde, Denmark. This event is the first major initiative of the newly revived Scandinavian Logic Society (http://scandinavianlogic.org/). The invited speakers include: N. Bjorner, R. Iemhoff, P. Martin-Löf, and B. Velickovic. The Co-chairs of the Program Committee are N. Jones and E. Palmgren. The Organizing Committee includes: P.R. Blackburn, K.F. Jørgensen, and S.A. Petersen. For further information, visit http://scandinavianlogic.weebly.com/.
- 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 the 2010 Sino-European Summer School on Logic, Language, and Computation. 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. The Program Committee Chair is P.G. Kolaitis, and the Local Organizers are M. Guo, M. Ma, X. Tang, and J. Wang. An international conference will precede the school on August 25–26, 2012. For more information, visit http://home.hib.no/prosjekter/easllc2012/.
- Nineteenth Workshop on Logic, Language, Information and Computation (WoLLIC'2012). September 3-6, 2012, Buenos Aires, Argentina. This is the nineteenth in a series of workshops intended to foster interdisciplinary research in pure and applied logic. The Chair of the Program Committee is L. Ong. The Co-chairs of the Organizing Committee are C. Areces and R. de Queiroz. The deadline for submission of abstracts for contributed papers is April 27, 2012, and full papers must be submitted by May 4, 2012. For further information, visit http://wollic.org/wollic2012/.

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- Ninth Annual Conference on Theory and Applications of Models of Computation (Turing Centenary Meeting). May 16-21, 2012, Beijing, China. The Turing Lecturers 2012 include: S.B. Cooper, J. Hopcroft, R. Karp, J. Kleinberg, B. Lampson, W. Li, and A.C-C. Yao. The meeting also includes the following invited special sessions (with organizers in parentheses): Algorithms and information in networks (Z. Liu), Complexity and cryptography (X. Deng), Models of computing and networking (A. Bonato), and Programming and verification (W. Zhang). The Co-chairs of the Program Committee are M. Agrawal, S.B. Cooper, and A. Li. The Co-chairs of the Local Organizing Committee are A. Li and Y. Li. For further information, visit http://turing2012.iscas.ac.cn/tamc2012.html.
- Twenty-eighth Conference on the Mathematical Foundations of Programming Semantics (MFPS 2012). June 6-9, 2012, Bath, England. The invited speakers include: S. Awodey, M. Clarkson, P. Johann, D. Kozen, D. Moshier, and J. Power. A series of tutorial lectures on game semantics organized by A. Schalk and P.-A. Méllies also are planned. There also will be special sessions on: computability on continuous data; computational effects; and, logic, computation, and algebraic topology. The Chair of the Program Committee is U. Berger, and local arrangements are being overseen by G. McCusker and J. Power. For further information, visit http://www.math.tulane.edu/~mfps/MFPS28.
- Interactions of Model Theory with Number Theory and Algebraic Geometry. June 11–15, 2012, Bonn, Germany. This conference will take place during the final week of the Model theory and applications workshop at the Max Planck Institute. Confirmed speakers thus far include: M. Bays, A. Buium, F. Campana, G. Comte, F. Delon, A. Ducros, J. Gordon, P. Habegger, M. Kamensky, J. Kirby, P. Kowalski, F. Loeser, D. Masser, A. Medvedev, M. Orr, A. Pillay, T. Scanlon (tentative), T. Servi, M. Thomas, and B. Zilber. The organizers of the conference are J.-B. Bost, Z. Chatzidakis, and R. Moosa (Chair). For further information, visit http://www.math.uwaterloo.ca/~imna.
- The Alan Turing Centenary Conference. June 22–25, 2012, Manchester, England. The invited speakers include: F.P. Brooks, Jr., R. Brooks, V. Cerf, E.M. Clarke, J. Copeland, G. Ellis, D. Ferrucci, T. Hoare, G. Kasparov, S. Klein, D. Knuth, Y. Matiyasevich, H. Meinhardt, R. Penrose, M.O. Rabin, A. Shamir, L. Valiant, M.M. Veloso, and A.C-C. Yao. There also will be panel discussions with the following speakers: S. Abramsky, R. Brachman, M. Davis, S. Furber, C. Goble, P. Hayes, B. Meyer, and M. Vardi. The Honorary Chairs are R. Brooks and R. Penrose; the Conference Chairs are M. Baaz and A. Voronkov; the Program Chair is A. Voronkov; and the Turing Fellowships Chair is S.B. Cooper. For further information, visit http://www.turing100.manchester.ac.uk/.
- Sixth International Joint Conference on Automated Reasoning (IJCAR 2012). June 26-July 1, 2012, Manchester, England. This event merges the following leading events in automated reasoning: CADE (International Conference on Automated Deduction), FroCoS (International Symposium on Frontiers of Combining Systems), FTP (International Workshop on First-order Theorem Proving), and TABLEAUX (International Conference on Automated Reasoning with Analytic Tableaux and Related Methods). The Conference Chairs are K. Korovin and A. Voronkov, and the Program Chairs are B. Gramlich, D. Miller, and U. Sattler. For further information, visit http://ijcar.cs.manchester.ac.uk/.
- Model Theory in Algebra, Analysis and Arithmetic. July 2-6, 2012, Cetraro, Italy. This event, under the auspices of the 2012 program of CIME (International Mathematical Summer Center) includes the following four courses (with lecturers in parentheses): Model theory of valued fields (L. van den Dries); On the model theory of real and complex exponentiation (A. Wilkie); Theories without the independence property (A. Pillay); and, Undecidability in number theory (J. Koenigsmann). Additional talks by A. Macintyre and S. Starchenko are also planned, and there will be a poster session. The course directors are D. Macpherson and C. Toffalori. For further information visit http://php.math.unifi.it/users/cime/ or contact C. Toffalori at carlo.toffalori@unicam.it.

CALENDAR OF OTHER MEETINGS (continued)

- Thirty-ninth International Colloquium on Automata, Languages and Programming (ICALP 2012). July 9–13, 2012, Warwick, UK. This event is the main conference and annual meeting of the European Association for Theoretical Computer Science (EATCS). The conference is also one of the Alan Turing Centenary Celebration events. The three program tracks are: algorithms, complexity and games; logic, semantics, automata and theory of programming; and, foundations of networked computation. The main conference will be preceded by a series of workshops. The invited speakers are: G. Dowek, D. Harel (Alan Turing talk), K. Honda, S. Leonardi, D.A. Spielman, and B. Vöcking. The Conference Chair is A. Czumaj. For further information, visit http://www2.warwick.ac.uk/go/icalp2012.
- 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 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. Braüner. For further information, visit http://hylocore.ruc.dk/aiml2012.
- Twenty-first Annual Conference of the European Association for Computer Science Logic (CSL 2012). September 3–6, 2012, Fontainebleau, France. This is the annual conference of the European Association for Computer Science Logic (EACSL). The invited speakers include: S. Abiteboul, S. Cook, I. Lynce, and J. Makowsky. The 2012 Ackermann Award, the EACSL annual award for the outstanding dissertation for logic in computer science, will be presented at the meeting. The Co-chairs of the Program Committee are P. Cégielski and A. Durand. The Co-présidents of the Organizing Committee are P. Cégielski and P. Valarcher. For further information, visit http://csl2012.lacl.fr/.
- Twenty-eighth International Conference on Logic Programming (ICLP 2012). September 4-8, 2012, Budapest, Hungary. The General Chair is P. Szeredi, and the Program Committee Chairs are A. Dovier and V. Santos Costa. For further information, visit http://www.cs.bme.hu/iclp2012/.
- Logic, Algebra, and Truth Degrees 2012. September 10–14, 2012, Kanazawa, Japan. The main goal of this event, the third in the series, is to foster collaboration among researchers in the area of mathematical fuzzy logic, and to promote communication and cooperation with members of neighboring fields. The invited speakers include: R. Horčík, E. Jeřábek, D. Mundici, G. Restall, and L. Spada. A tutorial will be offered by F. Bou. The Chair of the Program Committee is H. Ono, and the Chair of the Organizing Committee is N. Preining. For further information, visit http://www.jaist.ac.jp/rcis/latd12/.
- Twenty-second International Symposium on Logic-Based Program Synthesis and Transformation (LOPSTR 2012). September 18–20, 2012, Leuven, Belgium. The aim of this series, co-located this year with the International ACM SIGPLAN Symposium on Principles and Practice of Declarative Programming (PPDP 2012; see http://dtai.cs.kuleuven.be/events/PPDP2012/), is to stimulate and promote international research and collaboration on logic-based program development. The Program Chair is E. Albert, and the General Co-Chairs are D. De Schreye and G. Janssens. For further information, visit http://costa.ls.fi.upm.es/lopstr12.

The next Newsletter will be sent in September 2012. Items to be included should reach the Secretary-Treasurer before August 31, 2012.

Submitted by Charles Steinhorn, Secretary-Treasurer.