

NOTICES

- **IN MEMORIAM: GRIGORI MINTS.** Grigori (“Grisha”) Mints died unexpectedly at Stanford on May 29, 2014. Born on June 7, 1939 in what is now St. Petersburg, Russia, Mints studied at the then Leningrad State University, obtaining a Master’s degree in mathematics in 1961 with a thesis on proof search in classical predicate logic, a Ph.D. in 1965 with the thesis *On Predicate and Operator Variants for Building Theories of Constructive Mathematics*, and a D.Sc. in 1990 with *Proof Transformations and Synthesis of Programs*. From 1961 to 1979, Mints was a researcher at the Leningrad Branch of the Steklov Mathematics Institute. In 1980 he was appointed to a research position at the Institute of Cybernetics in Tallinn, Estonia. In 1991 he became a professor of philosophy and, by courtesy, of mathematics and computer science at Stanford University. Mints was elected to the Estonian Academy of Sciences in 2008 and to the American Academy of Arts and Sciences in 2010.

Mints’ research spanned several areas, with many interconnections. The grand unifying theme in his oeuvre was proof theory and constructivism, but entangled with this came a lifelong interest in computational logic as well as special attention for two specific areas: intuitionistic logic and modal logic.

Mints was trained in the Russian school of constructive mathematics of Markov and of his teacher Nikolai Shanin. In this paradigm, all mathematical objects should be defined in a finite language, and every proof of existence should provide an algorithm, where properties of the algorithm are to be proved by constructive principles including Markov’s schema. In tandem with this foundational view concerning mathematics, Shanin’s group at Steklov also worked on practical automated reasoning, with an emphasis on generating natural proofs, where ‘natural’ included making sense from the perspective of a human agent. This mixture of proof theory and computation led to inventions such as the ‘inverse method’, a style of analyzing provability similar to resolution, developed in 1964 by Sergei Maslov, a close friend of Mints.

Combining proof theory and computation naturally leads to a study of intuitionistic logic, and the most significant results of Mints’ first period concern this interface. They include an extension of Herbrand’s theorem to intuitionistic predicate logic (1962), and a proof of the undecidability of intuitionistic predicate logic with a single unary predicate (1965, a classical paper joint with Maslov and Orevkov). Some of these results are still under active investigation. Mints’ paper of 1968 on decidability of a certain fragment of the Gentzen system LJ introduced what is now called the “Mints hierarchy” of intuitionistic first-order formulas. Complexity properties of Mints classes are still under investigation (e.g., in recent works by Schubert, Urzyczyn, et al.), since they are important to understanding constructive type-theoretic proof assistants such as Coq. Also noteworthy is Mints’ proof in 1974 that familiar procedures for extracting programs from existence proofs in intuitionistic arithmetic produce equivalent algorithms.

In subsequent years, Mints turned to the study of relationships between proof theory and category theory. He used proof-theoretic methods to simplify proofs in category theory and to prove new theorems. Three key papers appeared in 1977–1980 in Russian (English translations in G. Mints, *Selected Papers in Proof Theory*, Bibliopolis and North-Holland, 1992). In particular, Mints gave a clear exposition of Lambek’s results connecting Cartesian closed categories and intuitionistic logic using a novel technique of encoding proofs as explicit proof-terms, an idea that has entered categorical logic itself, and that reemerged in modern manifestations such as Artemov’s justification logic. Important results obtained by Mints with this style of analysis include normalization and coherence theorems.

Mints retained his fundamental proof-theoretic interests throughout, witness his long-standing work on Hilbert's epsilon calculus to subsystems of analysis right through his Stanford period.

During his stay in Estonia, Mints was actively involved with automated deduction. While in Tallinn, he studied the mathematical principles behind the program synthesizer PRIZ, designed by a group at the Institute of Cybernetics led by Enn Tyugu. Mints came up with an example that PRIZ could not handle, leading to an improvement of the algorithm for which Mints established completeness (1982, joint with Tyugu).

This applied work was based on Mints' earlier research in proof theory for intuitionistic logic. But he also proved a large number of pure results in the area of intuitionism. These include his proof of Novikov's hypothesis that a Tarski-style translation from Heyting arithmetic to modal arithmetic is faithful (1978). This result fits in an important line of system embeddings, whose later highlights include Flagg and Friedman (1984). Another long-standing interest of Mints in this area were interpolation theorems. An error in the interpolation proof by Lopez-Escobar for intuitionistic first-order logic with constant domains was found by him in 1983, and a recent joint paper with Olkhovikov and Urquhart (2012) finally produced a concrete and instructive counter-example. Mints' book *A Short Introduction to Intuitionistic Logic* (2000) is a delightful introduction to the field with many original perspectives.

A natural step leads from intuitionism to modal logic. Mints was the first logician in the Soviet Union to work in modal logic, an exotic area in the 1960s. His first papers (1968-1969) addressed proof theory and decidability of first-order modal logics: in particular, he gave a cut-free sequent calculus for first-order S5 with equality. He also independently introduced the 'standard translation' from modal to classical formulas, one of the main tools in contemporary modal logic. In 1974 he wrote an overview of modal logic in the period 1965-1973 including some of his own results (later transformed into the book *A Short Introduction to Modal Logic*, 1992).

In the 2000s, Mints proposed a study of basic laws of topology and of dynamical systems over these in a modal language. His results from this period include new proofs (some with Ting Zhang) of the completeness of S4 for the open unit interval and for Cantor space, and for the completeness of the basic dynamic topological logic S4C in Cantor space. Much of this work was collected in a chapter in the *Handbook of Spatial Logics* (2007), written by Mints and his collaborator Phil Kremer, which put this research program on the map. Recent new directions in his work included work on cut-elimination in fragments of the modal mu-calculus (2012).

Looking back at Mints' work one sees a unity of themes and style that connected logic, mathematics, and computer science in many innovative ways. In addition he had a unique charm, formed by Russian and later on also by American culture, and a generous and encouraging intellectual attitude that exerted a strong positive influence on his colleagues, from America to Russia, and on successive generations of students until this very period. Many people owe him great ideas that set them on their paths, which he gave unstintingly, as well as help at crucial stages in their career.

- **THE 2014 ASL ELECTION.** The ASL membership has elected Verónica Becher (Buenos Aires) and Hannes Leitgeb (Munich) to the Executive Committee, and Zoé Chatzidakis (Paris) and Alexandra Soskova (Sofia) to the Council. Their terms of office are for three years beginning January 1, 2015. The Nominating Committee consisted of Matthias Baaz, Julia Knight, Stephan Kreutzer, Alf Onshuus, Charles Parsons, Ernest Schimmerling, Katrin Tent, and Alex Wilkie (Chair).
- **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>.
- **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 <http://www.aslonline.org/worldbankeconomies.html> includes Brazil, Bulgaria, China, Colombia, India, Iran, Russia, 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://www.aslonline.org/membership-individual.html>. After the initial two-year period new members under this program will pay the reduced membership dues, currently at US\$18, (see below) as long as their country of residence is on the ASL’s list of developing economies.

- **REDUCED DUES FOR INDIVIDUALS AND INSTITUTIONS IN DEVELOPING ECONOMIES.** The ASL offers reduced dues for individual and institutional members in developing economies. For 2015, 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.
- **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 2015 are US\$47. 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>.
- **NEW ASL BOOKS.** To see new books in the ASL’s *Lecture Notes in Logic and Perspectives in Logic* series, visit <http://www.aslonline.org/books-lnl-available.html> for LNL volumes and http://www.aslonline.org/books-perspectives_cup_springer.html for Perspectives volumes.
- **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>, or write to the ASL Business Office.
- **STUDENT TRAVEL AWARDS: THE 2015 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.Ös so that they may attend the 2015 ASL European Summer Meeting in Helsinki, Finland. Student members of the ASL also may apply for travel grants to other ASL or ASL-sponsored meetings. See below for information about these 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.

For the 2015 ASL European Summer Meeting, applications and recommendations should be received before the deadline of May 3, 2015, by the Organizing Committee: Logic Colloquium 2015, Department of Mathematics and Statistics, P.O. Box 68, FI-00014 University of Helsinki, FINLAND; email: lc-2015@helsinki.fi. For applications by email, please put “ASL travel application” in the subject line of your message. Applications by email are preferred.

For ASL student member travel grants to ASL or ASL-sponsored meetings (other than the 2015 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.

- 2015 ASL NORTH AMERICAN ANNUAL MEETING. *March 25–28, 2015, Urbana, Illinois.* The twenty-sixth annual Gödel Lecture will be delivered by A. Wilkie. The invited speakers are: V. Becher, D. Fernandez-Duque, R. Grossberg, Y. Gurevich, N. Immerman, R. Miller, and A. Tserunyan. Invited two-hour tutorials will be offered by J. Cummings and C. Miller. The following special sessions will be offered (with organizers in parentheses: Computability U. Andrews and S. Lempp), Constructive mathematics (D. Bridges and V. Kreinovich), Model theory of ordered structures (Y. Peterzil and S. Starchenko), Parametrized complexity (R. Downey and S. Gaspers), Philosophy of mathematics (A. Arana and A. Yap), and Set theory (S. Solecki). The members of the Program Committee are: D. Haskell (Chair), P. Hieronymi, A. Montalban, A. Razborov, D. Sinapova, and H. Towsner. The Local Organizing Committee includes: A. Arana (Chair), L. van den Dries, P. Hieronymi, T. McCarthy, and S. Solecki. For further information, visit <http://www.math.illinois.edu/ASL2015>.
- 2015 ASL EUROPEAN SUMMER MEETING (LOGIC COLLOQUIUM '15). *August 3–8, 2015, Helsinki, Finland.* Logic Colloquium '15 will be co-located with the 15th Conference of Logic, Methodology and Philosophy of Science (CLMPS 2015; see below and <http://clmps.helsinki.fi>), and the Scandinavian Logic Society Summer School in Logic (see below and <http://www.helsinki.fi/lc2015/sls.html>). Tutorials will be offered by E. Grädel and M. Magidor. The invited plenary speakers include: T. Arai, S. Artemov, S. Awodey, J. van Benthem, A. Chernikov, I. Farah, D. Macbeth, A. Morozov, Y. Peterzil, R. Schindler, S. Shelah (TBC), and S. Terwijn. Special sessions (with organizers in parentheses) include: Computability theory (R. Miller and A. Soskova), Logic and quantum foundations (S. Abramsky), Model theory (D. Macpherson), Philosophy of mathematics and logic (P. Blanchette and P. Maddy), Proof theory (B. van den Berg and M. Rathjen), and Set theory (H. Mildenberger). The Program Committee members are: A. Bauer, Z. Chatzidakis, J.F. Knight, S. Kreutzer, Ø. Linnebo, K. Tanaka, J. Väänänen, A. Weiermann, and D. Westerståhl (Chair). The Local Organizing Committee includes: A. Halko, M. Hannula, L. Hella, Å. Hirvonen, T. Huuskonen, T. Hyttinen, K. Kangas, J. Kennedy, J. Kontinen, K. Luosto, M. Moreno, J. Oikkonen, G. Paolini, M. Pauna, J. Väänänen (Chair), and F. Yang. For further information, visit <http://www.helsinki.fi/lc2015/>.

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 can be submitted at <http://www.helsinki.fi/lc2015/submission.html>; the deadline for submission is May 3, 2015.

- 2016 ASL NORTH AMERICAN ANNUAL MEETING. *May 23–26, 2016, Storrs, Connecticut.* The members of the Local Organizing Committee are: Jc. Beall, D. Dzhanfarov, D. Ripley, M. Rossberg, and R. Solomon (Chair).
- 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 who submitted them. Revised abstracts that follow the rules will be considered if they are received by the announced deadline.

- **MODEL THEORY AND GROUPS, ISTANBUL 4.** *March 26–28, 2015, Istanbul, Turkey.* The invited speakers include: F. Atalan, V. Guirardel, A. Iwanow, Z. Sela, R. Sklinos, Ö. Ünlü, and M. Ziegler. Tutorials will be offered on the following topics (with speakers in parentheses): *Space of finitely generated groups* (M.G. Benli) and *Automorphism groups of metric structures* (J. Melleray). The members of the Organizing Committee are: T. Altinel, A. Berkman, and Ö. Beyarslan. For further information, visit <http://math.univ-lyon1.fr/~altinel/modelsgroups.html>. (ASL Sponsored Meeting.)
- **ANTALYA ALGEBRA DAYS XVII.** *May 20–24, 2015, Sirince, Turkey.* The invited speakers are: L. Barker, I. Capdeboscq, A. Giambruno, E. Hrushovski, O. Kegel, S. Koshitani, V. Nekrashevych, E. Özman, P. Plaumann, P. Shumyatsky, K. Tent, D. Testerman, S. Thomas, A. Thoma, and H. Yeşilyurt. The Program Committee includes: F. Arslan, A. Berkman, R. Grigorchuk, W. Herfort, P. Kowalski, M. Maj, C. Praeger, S. Sertöz, and A. Topuzoğlu. The Local Organizing Committee includes: F. Arslan, G. Benli, A. Berkman, K. Ersoy, D. Pierce, and I. Tuvay. For more information, visit https://matematikkoyu.org/eng/events/2015_aad/index.php. (ASL Sponsored Meeting.)
- **FOURTH INTERNATIONAL CONGRESS ON TOOLS FOR TEACHING LOGIC (TTL 2015).** *June 9–12, 2015, Rennes, France.* The keynote speakers include: M. Ben-Ari, J. van Benthem, P. Blackburn, G. Dowek, C. Kirchner, and N. Schweikardt. For further information, visit <http://ttl2015.irisa.fr/>. (ASL Sponsored Meeting.)
- **FIFTH WORLD CONGRESS AND SCHOOL ON UNIVERSAL LOGIC (UNILOG 2015).** *June 20–30, 2015, Istanbul, Turkey.* The invited keynote speakers include: J. Bueno Soler, O. Caramello, E. Dragalina-Chernaya, M. Fitting, L. Floridi, E. Lepore, B. Löwe, S. McCall, J. Marcos, A.-V. Pietarinen, B. Poizat, and G. Priest. The school is intended for Ph.D. students, postdoctoral students, and young researchers interested in logic, artificial intelligence, mathematics, philosophy, linguistics, and related fields. A broad range of tutorials will be offered; the list (with links to descriptions) can be found at <http://www.uni-log.org/start5.html>. The members of the Scientific Committee are: A. Avron, J. van Benthem, R. Brady, C. Caleiro, W. Carnielli, M. Dunn, D. Gabbay, H. He, G. Jaeger, A. Koslow, I. Nemeti, G. Sher, V. Vasyukov, and H. Wansing. The Co-chairs of the Organizing Committee are J.-Y. Béziau and S. Ural. For further information, visit <http://www.uni-log.org/enter-istanbul>. (ASL Sponsored Meeting.)
- **TOPOLOGY, ALGEBRA, AND CATEGORIES IN LOGIC (TACL2015).** *June 21–26, 2015, Ischia, Italy.* This conference 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: O. Caramello, A. Ciabattoni, M.M. Clementino, E. Jeřábek, A. Joyal, K.A. Kearnes, D. Mundici, P. Oliva, J. Picado, and M. Pinsker. The conference will be preceded by a school on June 15–19th. The lecturers for the school are: G. Bezhanishvili, B. Davey, I. Moerdijk, and L. Ong. The Co-chairs of the Program Committee are D. Gabelaia and V. Marra. For further information, visit <http://logica.dmi.unisa.it/tacl/>. (ASL Sponsored Meeting.)
- **COMPUTABILITY IN EUROPE 2015 (CiE 2015): EVOLVING COMPUTABILITY.** *June 29–July 3, 2015, Bucharest, Romania.* This is the eleventh in a series organized by Computability in Europe (CiE). Tutorials will be offered by J. Reif and S. Simpson. A public lecture will be offered by M. Dumitru. The invited speakers include: A. Copestake, P. Gawrychowski, J. Knight, A. Muscholl, G. Paun, A. Razborov, and V. Vedral. Special sessions on the following topics also are planned (with organizers in parentheses): Automata, logic, and infinite games (D. Berwanger and I. Leustean); Bio-inspired computation (A. Paun and P. Sosik); Classical computation (M. Arslanov and S. Lemp); History and philosophy of computing (M. Benini and C. Proust); Representing streams (J. Endrullis and D. Hendriks); and, Reverse mathematics (D. Dzhamalov and A. Marcone). The Program Committee Co-chairs are V. Mitrană and M. Soskova, and the Chair of the Steering Committee is A. Beckmann. For more information, visit <http://fmi.unibuc.ro/CiE2015/>. (ASL Sponsored Meeting.)

- **THIRTIETH ANNUAL ACM/IEEE SYMPOSIUM ON LOGIC IN COMPUTER SCIENCE (LICS 2015).** *July 6–10, 2015, Kyoto, Japan.* The LICS Symposium is an annual forum on theoretical and practical topics in computer science that relate to logic. This event will be co-located with the 2015 International Colloquium on Automata, Languages and Programming (ICALP 2015; see below), the main conference and annual meeting of the European Association for Theoretical Computer Science (EATCS; see <http://www.eatcs.org>). The LICS Program Committee Chair is C. Palamidessi, the Conference Chair is M. Hasegawa, the Workshop Chair is P. Bouyer-Decitre, and the General Chair is L. Ong. For more information, see <http://lics.rwth-aachen.de/lics15/>. (ASL Sponsored Meeting.)
- **TWENTY-SECOND WORKSHOP ON LOGIC, LANGUAGE, INFORMATION AND COMPUTATION (WOLLIC'2015).** *July 20–23, 2015, Bloomington, Indiana.* This is the twenty-second in a series of workshops intended to foster interdisciplinary research in pure and applied logic. The Chair of the Program Committee is V. de Paiva. The Co-chairs of the Organizing Committee are D. Leivant, L. Moss, and R. de Queiroz. For further information, visit <http://wollic.org/wollic2015/>. (ASL Sponsored Meeting.)
- **SCANDINAVIAN LOGIC SOCIETY SUMMER SCHOOL IN LOGIC 2015.** *July 27–31, 2015, Helsinki, Finland.* This event will be co-located in 2015 with the European Summer Meeting of the Association for Symbolic Logic (Logic Colloquium '15; see above) and the 15th Conference of Logic, Methodology and Philosophy of Science (CLMPS 2015; see below). The following courses will be offered (with lecturers in parentheses): Automata-theoretic verification (M. Vardi), Classification theory (Å Hirvonen), Logic and quantum information (S. Abramsky), Logical completeness, the very idea (C. Franks), Proof theory and proof mining (J. Avigad), Reflection principles and large cardinals (L. Fontanella), and TBA (N. Schweikardt). The members of the Program Committee are: P. Blanchette, T. Coquand, M. Gehrke, E. Grädel, R. Iemhoff, E. Palmgren, M. Rathjen, and S. Smets. The Co-chairs of the Organizing Committee are J. Kennedy and D. Normann. For further information, visit <http://www.helsinki.fi/sls2015/index.html>. (ASL Sponsored Meeting.)
- **TWENTY-SEVENTH EUROPEAN SUMMER SCHOOL IN LOGIC, LANGUAGE AND INFORMATION (ESSLLI-2015).** *August 3–14, 2015, Barcelona, Catalonia, Spain.* The European Summer School in Logic, Language and Information brings together logicians, linguists, computer scientists, and philosophers to study language, logic and information, and their interconnections. 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. ESSLLI-2015 is organized under the auspices of the European Association for Logic, Language and Information (FoLLI). For more information about ESSLLI-2015, visit <http://esslli2015.org>; for further information about FoLLI, visit <http://www.folli.info>. (ASL Sponsored Meeting.)
- **TWELFTH ANNUAL CONFERENCE ON THEORY AND APPLICATIONS OF MODELS OF COMPUTING (TAMC 2015).** *May 18–20, 2015, Singapore.* This conference series aims to bring together a wide range of researchers with interests in computational theory and applications. The Conference Chair is S. Jain, and the Program Committee Chairs are R. Jain and F. Stephan. For further information, visit <http://www.comp.nus.edu.sg/~fstephan/tamc2015/tamc2015.html>.
- **FORTY-SECOND INTERNATIONAL COLLOQUIUM ON AUTOMATA, LANGUAGES AND PROGRAMMING (ICALP 2015).** *July 6–10, 2015, Kyoto, Japan.* This event is the main conference and annual meeting of the European Association for Theoretical Computer Science (EATCS). In 2015 it will be co-located with the Thirtieth Annual ACM/IEEE Symposium on Logic in Computer Science (LICS 2015; see above). The three program tracks are: algorithms, complexity and games; logic, semantics, automata and theory of programming; and foundations of networked computation: models, algorithms, and information management. Tutorials (joint with LICS 2015) will be given by P. Indyk, A. Pitts, and G. Smith. The keynote speakers are: K. Kawarabayashi, V. King, T. Moscibroda, A. Muscholl, and P. O'Hearn. The conference will be preceded and followed by a series of workshops. The Conference Chair is K. Iwama. For more information, visit <http://www.kurims.kyoto-u.ac.jp/icalp2015/>.

- FIFTEENTH CONGRESS OF LOGIC, METHODOLOGY AND PHILOSOPHY OF SCIENCE. *August 3–8, 2015, Helsinki, Finland*. Held every four years since 1960, this is the main international conference organized by the Division of Logic, Methodology and Philosophy of Science (DLMPS) of the International Union of History and Philosophy of Science (IUHPS). The Congress will be co-located in 2015 with the European Summer Meeting of the Association for Symbolic Logic (Logic Colloquium '15; see above) and the Scandinavian Logic Society Summer School in Logic (see above). The program is divided into sections under the headings of Logic, General Philosophy of Science, and Philosophical Issues of Particular Disciplines. The President of the Executive Committee of DLMPS is E. Sober, the Program Committee Chair is H. Leitgeb, and the Chair of the Local Organizing Committee is I. Niiniluoto. For more information, visit <http://clmps.helsinki.fi/index.php>.
- SUBMISSIONS INVITED TO *Journal of Logic and Analysis*. Authors are invited to submit papers to the *Journal of Logic and Analysis* (JLA), an electronic, open access journal, launched in 2009 as a successor to the Springer journal *Logic and Analysis*. JLA publishes papers involving interaction between ideas or techniques from mathematical logic and other areas of mathematics (especially—but not limited to—pure and applied analysis). Journal contents are kept in the public domain; readers do not have to register or log in, and there are no page charges or other author fees. The journal can be found at <http://logicandanalysis.org/>. The JLA is an officially sponsored journal of the Association for Symbolic Logic (see http://www.aslonline.org/journals-sponsored_journals.html).