Association for Symbolic Logic

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ASL NEWSLETTER NOVEMBER 2001

- **The 2001 ASL Election.** Enclosed with this Newsletter is the ballot for the 2001 election for the positions of Secretary-Treasurer, two members of the Executive Committee of the Council, and two members of the Council. All terms are for three years beginning January 1, 2002. There were no nominations by petition and thus there are no contested seats. The Nominating Committee consisted of John Burgess, Chi Tat Chong, Dirk van Dalen, Neil Immerman, Julia Knight, Peter Koepke, and Carol Wood (Chair). To be counted, ballots must be returned to the ASL office in Poughkeepsie **by December 31, 2001**. All ASL members are urged to vote.
- **Foundation for Polish Science Annual Award to Newelski.** The Foundation for Polish Science (FNP) recently announced that Professor Ludomir Newelski of the Mathematical Institute of Wrocław University and the Mathematical Institute of the Polish Academy of Sciences, has been awarded an FNP Annual Award. Four of these awards are granted each year to Polish scholars and scientists for remarkable achievements or findings in the exact sciences, medicine and the life sciences, the humanities and social sciences, and the technical sciences. The awards carry a cash prize of approximately $10,000. The award ceremony is traditionally held in the beginning of December in the Royal Castle in Warsaw. The FNP, currently regarded as the most significant non-governmental sponsor of Polish science, was registered in 1991 as an independent, self-financing, non-profit institution whose mission is to support Polish science, humanities, and technology.

ASL MEETINGS

- **Student Travel Awards: The 2002 ASL Annual Meeting and the 2002 ASL European Summer Meeting.** 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 2002 ASL Annual Meeting in Las Vegas, Nevada, or the 2002 ASL European Summer Meeting in Münster, Germany; 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 (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, (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. Only modest grants will be possible, partially covering travel costs and perhaps some of the living expenses during the meeting. Women and members of minority groups are strongly encouraged to apply. In addition to funds provided by the ASL, this program of travel grants is supported by a grant from the US National Science Foundation; NSF funds may be awarded only to students at US universities and to citizens and permanent residents of the USA. Air travel paid for using NSF funds must be on a US airline. For both meetings, application by email is encouraged; put "ASL travel application" in the subject line of your message.

  For the 2002 ASL Annual Meeting, applications and recommendations should be received before the deadline of March 15, 2002, by the Program Chair: Theodore Slaman, Department of Mathematics, University of California Berkeley, Berkeley, California 94720, USA; email: `slaman@math.berkeley.edu`.

  For the 2002 ASL European Summer Meeting, applications and recommendations should be received before the deadline of April 1, 2002, by the Organizing Committee: Institut für Mathematische Logik und Grundlagenforschung, Logic Colloquium 2002, Einsteinstrasse 62, D-14849 Münster, Germany; email: `lc2002ms@math.uni-muenster.de`.

- **2001-02 ASL Winter Meeting (with Joint Mathematics Meetings).** *January 8–9, 2002, San Diego, California.* This meeting will take place in conjunction with the Joint Mathematics Meetings, which will be held January 6–9, 2002. Invited speakers include: M. Benedikt, J. Clemens, R. Downey, S. Goncharov, M. Grohe, L. Libkin, P. Rothmaler, M. Vardi, and M. Zeman. The Program Committee members are G. Hjorth (Chair), C. Miller, J. Remmel, and V. Vianu. The program for this meeting is enclosed in this Newsletter mailing. There also will be a jointly sponsored AMS/ASL Special Session organized by S. Thomas on "Set Theory and Classification Problems," and an AMS Special Session, organized by D. Cenzer and J. Remmel, on "Computability Theory with Applications." Both Special Sessions will take place on January 6–7, 2002. The web site for the Joint Mathematics Meetings, which includes registration and housing information, is at `http://www.ams.org/amsmtgs/2049_intro.html`.

- **2002 ASL Spring Meeting (with APA).** *March 28–29, 2002, Seattle, Washington.* This meeting will be held jointly with the Annual Meeting of the Pacific Division of the American Philosophical Association, which will take place on March 27–30, 2002. The focus of the ASL meeting is "Predicativity: Problems and Prospects," for which the invited speakers are J. Avigad, S. Feferman, and G. Hellman. The Program Committee members for the ASL meeting are: G. A. Antonelli and P. Mancosu (Chair). For further information, contact P. Mancosu by email at `mancosu@socrates.berkeley.edu`; for hotel information visit `http://www.apa.udel.edu/apa/divisions/pacific/`.

- **2002 ASL Annual Meeting.** *June 1–4, 2002, Las Vegas, Nevada.* Invited speakers include S. Adams, E. Clarke, G. Hjorth, E. Jaligot, S. Lavine, Z. Sela, N. Shankar, S. Simpson, S. Todorčević, W. Tait, H. Woodin, and J. Young. The Thirteenth Annual Gödel Lecture will be delivered by H. Friedman. There also will be special sessions, with organizers in parentheses, on: Education (J. Larson), Logic in Computer Science (E. Clarke and N. Shankar), Philosophy of Mathematics (W. Tait), and Set Theory (H. Woodin). The members of the Program Committee are G. Cherlin, D. Dubose, W. Goldfarb, J. Larson, A. Scedrov, and T. Slaman (Chair). The Local Organizing Committee includes D. Burke, D. Dubose (Chair), and J. Mourad. 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 February 15, 2002, 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`.

- **2002 ASL European Summer Meeting (Logic Colloquium '02).** *August 3–10, 2002, Münster, Germany.* Invited speakers include J. Avigad, A. Beckmann, T. Carlson, R. Constable, K. Dosen, M. Gitik, V. Halbach, B. Khoussainov, S. Lempp, T. Pitassi, T. Scanlon, R. Schindler, P. Speissegger, and K. Tent. Tutorials will be offered by L. Beklemishev, S. Cook, O. Lessmann, and S. Thomas. Special sessions in computability theory, non-monotonic logic, and set theory also are planned. The members of the Program Committee are K. Ambos-Spies, S. Buss, Z. Chatzidakis, A. Kechris (Chair), P. Koepke, P. Komjath, M. Lerman, V. McGee, W. Pohlers, M. Rathjen, K. Segerberg, and B. Zilber. The members of the Organizing Committee are M. Burghardt, J. Diller, P. Koepke, B. Löwe, M. Möllerfeld, W. Pohlers (Chair), and A. Weiermann. 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 May 1, 2002 at the official meeting address: Institut für Mathematische Logik und Grundlagenforschung, Logic Colloquium 2002, Einsteinstrasse 62, D-48149 Münster, Germany; email: `lc2002ms@math.uni-muenster.de`. Further information also may be obtained by visiting the meeting web site, `http://www.math.uni-muenster.de/LC2002`.

- **Rules for Abstracts.** The rules for abstracts of contributed talks at ASL meetings (including those submitted "by title") may be found at WWW: `http://www.aslonline.org/asl/meetings/aslmeet.html#XXX282`. 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

- **Seventeenth Annual IEEE Symposium on Logic in Computer Science (LICS).** *July 22–25, 2002, Copenhagen, Denmark.* This conference is part of the 2002 Federated Logic Conference (FLoC'02). The Program Chair is G. Plotkin (email: `gdp@dcs.ed.ac.uk`), and the Local Arrangements Chair is U. Kohlenbach (email: `kohlenb@brics.dk`). The deadline for submission of papers is January 15, 2002. For further information on LICS 2002, visit `http://www.lfcs.informatics.ed.ac.uk/lics`.
- **International Workshop on Linear Logic (LL2002).** *July 25–26, 2002, Copenhagen, Denmark.* This is an official affiliated workshop of LICS 2002 (see above). The workshop organizers are S. Abramsky (email: `Samson.Abramsky@comlab.ox.ac.uk`), L. Regnier (email: `regnier@iml.univ-mrs.fr`), and A. Scedrov (email: `scedrov@cis.upenn.edu`). For further information, contact any one of the organizers or visit `http://floc02.diku.dk/LL/`.

NEW BOOKS AND JOURNALS (Also see `http://www.aslonline.org`.)

- ***Computability and Complexity Theory.*** Authors: S. Homer and A. L. Selman (Springer-Verlag, 2001, ISBN 0-387-95055-9), `http://www.springer-ny.com/detail.tpl?ISBN=387950559`. Further information, in addition to that available on the Springer-Verlag web page, may be obtained at `http://www.cse.buffalo.edu/~selman/book`.
- ***Knowledge in Action: Logical Foundations for Specifying and Implementing Dynamical Systems.*** Author: R. Reiter (MIT Press, 2001, ISBN 0-262-18218-1), `http://mitpress.mit.edu/0262182181`.
- ***Automated Theorem-Proving in Software Engineering.*** Author: J. M. Schumann (Springer-Verlag, 2001, ISBN 3-540-67989-8), `http://www.springer.de/cgi-bin/search_book.pl?isbn=3-540-67989-8`.
- ***Modal and Temporal Properties of Processes.*** Author: C. Stirling (Springer-Verlag, 2001, ISBN 0-387-98717-7), `http://www.springer-ny.com/detail.tpl?cart=9980395911806252&ISBN=0387987177`.
- ***Essays on Non-Classical Logic* (Advances in Logic, vol. 1).** Editor: H. Wansing (World Scientific Publishing, 2001, ISBN 981-02-4735-4), `http://www.wspc.com.sg/books/mathematics/4799.html`.

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

- **Assistant Professorship, Stanford University Department of Philosophy.** The Department of Philosophy at Stanford University has an opening for an Assistant Professor, three-year term, beginning September 2002. Candidates must have a Ph.D. with specialization in logic by the start of the appointment. Although the degree need not be in philosophy, candidates should have a genuine interest in that subject and be prepared to interact with philosophers in a serious way. Experience with philosophical aspects of logic and/or uses of logic in other fields preferred, but applications are welcome from all qualified candidates. The teaching load is 5 quarter courses per year (Stanford is on the three-quarter system), with a reduction to 4 courses in the third year. Candidates should submit a CV, a cover letter describing teaching experience as well as research interests and accomplishments, at least three confidential letters of recommendation, and evidence of exceptional teaching ability to Professor Solomon Feferman, Chair, Logic Search Committee, Department of Philosophy, Stanford University, Stanford, CA 94305-2155. The application deadline is December 1, 2001. Stanford is an AA/EOC employer, and encourages applications from women and minorities.
- **Research Positions, Ph.D. Admission and Grants, and Fellowships at BRICS.** BRICS—Basic Research in Computer Science, at the Universities of Aarhus and Aalborg, Denmark—has available new research positions, Ph.D. grants, and fellowships, beginning in 2002. Funded by the Danish National Research Foundation, BRICS is based on a commitment to develop theoretical computer science, covering core areas such as semantics of computation, logic, algorithms and data structures, complexity theory, data security and cryptology, and verification, and also including spin-off activities such as web technology, quantum informatics, bioinformatics,

and networks and distributed real-time systems. Research positions are open to applicants already holding a Ph.D. degree in computer science; Ph.D. admission and grants are open to students with at least four years of studies in computer science. Applications can be submitted at any time; however, the application deadline for Ph.D. grants and positions beginning August 2002 is February 15, 2002. For further information, including instructions on how to apply for any of these positions, visit `http://www.brics.dk/Positions/` or contact one of the BRICS Directors, M. Nielsen (Aarhus, email: `mn@brics.dk`) or K. G. Larsen (Aalborg, email: `kgl@brics.dk`). For further information about BRICS, visit `http://www.brics.dk/` or `http://www.cs.auc.dk/research/FS/`.

- **International Masters Program in Computational Logic.** The Dresden University of Technology is offering a two-year study program, in English, leading to a master of science degree in computational logic. Courses focus on logic and constraint programming, artificial intelligence, type theory, model theory, proof theory, equational reasoning, databases, natural language processing, planning and formal methods, among others. Tuition fees are waived. Prerequisites include a good knowledge of the basics of logic, and familiarity with mathematical reasoning. Knowledge of foundations of artificial intelligence and logic programming is desirable. Fluency in English is essential; German is not necessary. A bachelors degree in computer science, or equivalent degree, is required by the beginning of courses, October 2002. The deadline for applications is July 15, 2002, but applications are processed as they arrive. To apply, send an email with your curriculum vita to `mailto:cl-secretary@Inf.TU-Dresden.DE`. For further information, visit `http://www.cl.inf.tu-dresden.de/compulog/`.
- **The Danish Network for Philosophical Logic and Its Applications (PHILOG).** The Danish Network for Philosophical Logic and Its Applications (PHILOG), sponsored by The Danish National Research Council for the Humanities, will begin its activities in January 2002. PHILOG is an interdisciplinary network in philosophical logic aimed at coordinating research activities and promoting the field of philosophical logic both in Denmark and abroad. PHILOG is located in the Department of Philosophy and Science Studies, Roskilde University, Roskilde, Denmark. The network is directed by V. F. Hendricks and S. A. Pedersen. For further information, visit `http://www.philog.ruc.dk`.
- **MentorNet.** This is the Electronic Industrial Mentoring Network for Women in Engineering and Science. It pairs women studying engineering or science at one of our participating colleges or universities with professional scientists and engineers working in industry, and helps them form email-based mentoring relationships. Information about benefits of the MentorNet program to both mentors and students can be found at `http://www.mentornet.net/Documents/Program/`. Mentor applications are available at `http://www.mentornet.net/Documents/Mentors/`.

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

- **International Workshop on Hybrid Intelligent Systems (HIS'2001).** *December 11–12, 2001, Adelaide, South Australia.* This workshop, held in conjunction with the Fourteenth Australian Joint Conference on Artificial Intelligence (AI'01), is intended to bring together researchers, developers, practitioners, and users of neural networks, fuzzy inference systems, evolutionary algorithms, and conventional techniques. Several of the topics of this workshop may be of interest to logicians. For further information, visit `http://his.hybridsystem.com`.
- **Society for Machines and Mentality.** *December 27–30, 2001, Atlanta, Georgia.* This meeting is held in conjunction with the annual Eastern Division Meeting of the American Philosophical Association. Its theme is "Computational Power and Minds." For further information, contact B. Rosmaita by email at `Brian.Rosmaita@alumni.nd.edu` or visit the Society's web site, `http://www.dartmouth.edu/~phil/sfmm/`.
- **Sixth International Workshop on Deontic Logic in Computer Science (DEON'02).** *January 16–18, 2002, Imperial College, London, England.* This workshop focuses on the logical study of normative reasoning and applications to various areas of computer science. The Co-Chairs of the Program Committee are J. Horty and A.J.I. Jones. For further information, visit `http://www.doc.ic.ac.uk/deon02`.

Calendar of other meetings continued on separate sheet

- **First International ICSC Conference on Neuro-Fuzzy Technologies (NF 2002).** *January 16–19, 2002, Havana, Cuba.* This meeting focuses on neuro-fuzzy systems and their applications. Topics include, but are not limited to: advanced neuro and fuzzy paradigms, data granulation and fuzzy rule extraction, advanced training algorithms, evolutionary computation and graphical models, chaotic behavior and fractals, and applications in signal processing, control, robotics, etc. The General Conference Chair is H.-H. Bothe (email: `hhb@oersted.dtu.dk`), and the Co-Chairs of the Scientific Program Committee are H. Hellendoorn (email: `hans.hellendoorn@siemens.nl`) and P. Gonzalez Lanza (email: `pedro@cidet.icmf.inf.cu`). For further information, visit `http://www.icsc-naiso.org/conferences/nf2002`.
- **WSES Joint Conferences on Soft Computing.** *February 11–15, 2002, Interlaken, Switzerland.* This event combines the Third World Scientific and Engineering Society (WSES) International Conference on Fuzzy Sets and Fuzzy Systems (FSFS '02), Neural Nets and Applications (NNA '02), and Evolutionary Computation (EC '02). For further information, visit: `http://www.worldses.org/wses/conferences/2002/interlaken/fsfs` for FSFS '02; `http://www.worldses.org/wses/conferences/2002/interlaken/nna` for NNA '02; or `http://www.worldses.org/wses/conferences/2002/interlaken/ec` for EC '02.
- **2002 Spring Topology and Dynamics Conference.** *March 21–23, 2002, Austin, Texas.* The areas covered will include set-theoretic topology, continuum theory, dynamical systems, geometric topology, and geometric group theory. For further information, send email to: `stdc2002@atlas-conferences.com`.
- **Logic-Based Program Synthesis: State-of-the-Art and Future Trends (AAAI 2002 Spring Symposium).** *March 25–27, 2002, Stanford, California.* This conference surveys the current state of logic-based program synthesis, and such additional topics as representation of design knowledge, issues in constructive theorem-proving, issues in scaling up, the role of synthesis in component-based approaches to system development, domains amenable to synthesis, support for certification, and automatic program explanation. The Co-Chairs of the Program Committee are B. Fischer and D. Smith. For further information, visit `http://ase.arc.nasa.gov/aaai2002`.
- **Second Workshop on Formal Topology.** *April 4–6, 2002, Venice, Italy.* This workshop focuses on an approach to formal, or pointfree, topology, which stresses its constructive features. Its historical roots include Brouwer's conception of the continuum, which was expressed in terms of choice sequences. The later analysis and elimination of choice sequences led to connections with locale theory and inductive definitions. The subject now includes a variety of themes and novelties of interest in computer science, logic and foundations, and mathematics itself. The Chair of the Program Committee is P. Martin-Loef. Invited speakers include M. Escardo, P. Johnstone, H. Lombardi, E. Palmgren, M. Smyth, and S. Vickers. The workshop will be preceded by a one-day introductory tutorial on April 3, 2002. Abstracts of contributed papers should be submitted by February 28, 2002, by email to T. Coquand at `coquand@cs.chalmers.se`. For further information, contact G. Curi (email: `gcuri@math.unipd.it`).
- **European Joint Conferences on Theory and Practice of Software (ETAPS 2002).** *April 6–14, 2002, Grenoble, France.* ETAPS is a confederation of conferences and other events that has become the primary European forum for academic and industrial researchers working on topics relating to Software Science. ETAPS 2002 includes five conferences and thirteen satellite events, several of which may be of interest to logicians. Further information may be obtained at `http://www-etaps.imag.fr`.
- **Frontiers of Combining Systems (FroCoS2002).** *April 8–10, 2002, Santa Margherita, Italy.* In areas of computer science such as logic, computation, program development and proof, and artificial intelligence, specialized formalisms and inference mechanisms for special tasks must be used. In practice, such systems must be combined with each other and integrated into general purpose systems. This workshop focuses on general techniques for the combination and integration into general purpose systems of specialized formalisms and inference mechanisms. Topics may include: combination of logics; combination of constraint solving techniques, of decision procedures, and of term rewriting systems; combination of deduction systems and computer algebra; integration

of decision procedures and other solving processes into constraint programming and deduction systems; modelling hybrid systems; and logic modelling of multi-agent systems. The Program Chair is A. Armando (email: `armando@dist.unige.it`). For further information, visit `http://www.mrg.dist.unige.it/conferences/frocos2002/`.

- **Dimensions in Epistemic Logic.** *May 2–4, 2002, University of Roskilde, Roskilde, Denmark.* This conference is the first event sponsored by PHILOG, The Danish Network for Philosophical Logic and Its Applications (visit `http://www.philog.ruc.dk`). Its goals are: (1) to track the history and development of epistemic logic from Hintikka's first formulations to its contemporary forms, and consider some of the many applications in philosophy, computer science, economics, etc.; and (2) to describe and discuss the developments of epistemic logic in multi-modal systems. Invited speakers include: J. Hintikka, W. van der Hoek, W. Lenzen, H. Rott, K. Segerberg, J. Sowa, R. Stalnaker, M. Vardi, and R. Wojcicki. The Conference Chairs are V. F. Hendricks and S. A. Pedersen. For further information, visit `http://www.philog.ruc.dk/phiconf1.html`.
- **Thirty-Fourth Annual ACM Symposium on Theory of Computing (STOC).** *May 19–21 2002, Montréal, Québec, Canada.* Typical topics of interest include: algorithmic graph theory, algorithms and data structures, applications of logic, biological computing, computational biology, complexity theory, cryptography, computational algebra, computational geometry, machine learning, parallel and distributed computation, and probabilistic computation. For further information, visit `http://sigact.acm.org/stoc02/`.
- **Seventeenth Annual IEEE Conference on Computational Complexity.** *May 21–24 2002, Montréal, Québec, Canada.* Co-located with STOC 2002, this conference focuses on all areas of computational complexity theory, as well as other areas of computer science and mathematics motivated by topics in complexity theory. For further information, visit `http://omega.CRM.UMontreal.CA/CCC/`.
- **Euro-conference in Model Theory and Applications.** *May 27–June 1, 2002, Ravello, Italy.* Tutorials will be offered by E. Bouscaren, J. Denef, and P. Speissegger. Invited plenary speakers include: G. Cherlin, L. van den Dries, T. Gardener, E. Hrushovski, A. Macintyre, H.D. Macpherson, Y. Peterzil, A. Pillay, B. Poizat, T. Scanlon, K. Tent, F. Wagner, M. Ziegler, and B. Zilber. There will be a banquet to celebrate Angus Macintyre's 60th birthday. The Chair of the Program Committee is A. Wilkie. If you wish to receive conference announcements, contact A. Wilkie by email at `wilkie@maths.ox.ac.uk`. For further information, visit `http://www.logique.jussieu.fr/ECMTA-02/`.
- **International Conference on Topology and its Applications.** *June 24–28, 2002, Matsue City, Japan.* Particular areas of interest for this conference include: general topology, geometric topology, homotopy theory, knot theory, set-theoretic topology, and set theory. For further information, visit `http://www.math.shimane-u.ac.jp/~top2002/`.
- **Bounded Arithmetic and Complexity Classes.** *June 28–29, 2002, Lisbon, Portugal.* Among the main topics of this meeting are: bounded arithmetic, weak systems of analysis, extraction of numerical bounds from non-constructive proofs, and implicit characterizations of computational classes. The invited speakers include: J. Avigad, M. Hoffman, U. Kohlenbach, J. Krajíček, and T. Strahm. The deadline for submission of (extended) abstracts is March 1, 2002. For further information, contact F. Ferreira by email at `ferferr@cii.fc.ul.pt` or visit `http://alf1.cii.fc.ul.pt/~ferferr/bscc.html`.
- **Thematic Program on Set Theory and Analysis.** *September–December 2002, Fields Institute, Toronto, Canada.* During the Fall of 2002, the Fields Institute will host a thematic program devoted to fostering the interaction between set theory and analysis. The program will include at least two short thematic workshops. One will focus on set theoretic techniques in the theory of Banach spaces and the second will concentrate on Borel relations. The members of the Organizing Committee are: A. Dow, A. Kechris, M. Laczkovich, C. Laflamme, J. Steprans, and S. Todorčević. For further information, visit `http://www.fields.utoronto.ca/programs/scientific/02-03/set_theory/`.

The next Newsletter will be mailed in January, 2002. Items to be included should reach the Secretary-Treasurer before January 15, 2002.

Submitted by Charles Steinhorn, Secretary-Treasurer.