Reference and Book List

*The **Reference** section of the* Notices *is intended to provide the reader with frequently sought information in an easily accessible manner. New information is printed as it becomes available and is referenced after the first printing. As soon as information is updated or otherwise changed, it will be noted in this section.*

Upcoming Deadlines

February 1, 1999: Deadline for applications for AWM travel grants. For more information, see "Mathematics Opportunities" in this issue.

February 5, 1999: Deadline for receipt of proposals for MAA Grants for Women and Mathematics Projects. For more information, consult the Web site `http://www.maa.org/projects/solic_99.html` or contact Bernice Kastner, Mathematical Association of America, 1529 Eighteenth Street, NW, Washington, DC 20036; telephone 800-741-9415; e-mail: `bkastner@maa.org`.

February 16, 1999: Deadline for proposals for the first VIGRE Grant competition. For more information, consult the NSF Web site at `http://www.nsf.gov/cgi-bin/getpub?nsf9916/`.

February 18, 1999: Deadline for application for AWM travel grants for the Olga Taussky Todd Celebration of Careers in Mathematics for Women. For details, see "Mathematics Opportunities" in this issue.

February 28, 1999: Deadline for applications for the special minisymposium at the Fourth International Congress on Industrial and Applied Mathematics (ICIAM 99). For more information, see "Mathematics Opportunities" in this issue.

February 28, 1999: Deadline for proposals for the 2001–02 scientific program of the Mittag-Leffler Institute. For more information, consult the Web site `http://www.ml.kva.se/proposals.html` or contact the director of the Institute, Kjell-Ove Widman, at `widman@ml.kva.se`.

March 1, 1999: Deadline for applications for Enhancing Diversity in Graduate Education (EDGE), the Bryn Mawr College summer program for women. For details, consult the Web site `http://www.brynmawr.edu/Acads/Math/edge.html` or contact EDGE Program, Box 270, Spelman College, Atlanta, GA 30314.

March 31, 1999: Deadline for applications for the Mittag-Leffler Insti-

Where to Find It

A brief index to information that appears in this and previous issues of the *Notices*.

AMS e-mail addresses
November 1998, p. 1369

AMS Ethical Guidelines
June 1995, p. 694

AMS officers and committee members
October 1998, p. 1209

Board on Mathematical Sciences and Staff
May 1998, p. 632

Bylaws of the American Mathematical Society
November 1997, p. 1339

Classification of degree-granting departments of mathematics
January 1997, p. 48

Mathematical Sciences Education Board and Staff
May 1998, p. 632, February 1999, p. 244

Mathematics Research Institutes contact information
May 1997, p. 598

National Science Board of NSF
December 1997, p. 1492

NSF Mathematical and Physical Sciences Advisory Committee
January 1998, p. 105

Officers of the Society 1997 and 1998 (Council, Executive Committee, Publications Committees, Board of Trustees)
May 1998, p. 625

Program officers for federal funding agencies (DoD, DoE, NSF)
October 1998, pp. 1181–83

tute postdoctoral fellowships. For details, consult the World Wide Web at http://www.ml.kva.se/.

July 19, 1999: Deadline for proposals for the second VIGRE Grant competition. For more information, consult the NSF Web site at http://www.nsf.gov/cgi-bin/getpub?nsf9916/.

NSF Mathematics Education Staff

The Directorate for Education and Human Resources (EHR) of the National Science Foundation (NSF) sponsors a range of programs that support educational projects in mathematics, science, and engineering. Listed below are the names, telephone numbers, and e-mail addresses of those EHR program officers whose field is in the mathematical sciences or mathematics education. These individuals can provide information about the programs they oversee, as well as information about other EHR programs of interest to mathematicians. The mailing address is: Directorate for Education and Human Resources, National Science Foundation, 4201 Wilson Boulevard, Arlington, VA 22230. The World Wide Web address is http://www.nsf.gov/ehr/.

Division of Elementary, Secondary, and Informal Education
Teacher Enhancement Program
Francis (Skip) Fennel
ffennel@nsf.gov

John Luedeman
jluedema@nsf.gov

Diane Spresser
dspresser@nsf.gov

Anna Suarez
asuarez@nsf.gov
703-306-1620

Instructional Materials Development Program
John (Spud) Bradley, Acting Deputy Division Director
jbradley@nsf.gov
703-306-1620

Division of Research, Evaluation, and Dissemination
Larry Suter, Deputy Division Director
lsuter@nsf.gov
703-306-1650

Division of Undergraduate Education
James Lightbourne
jhlightb@nsf.gov

Elizabeth Teles
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Frank Wattenberg
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703-306-1670

Division of Educational System Reform
Eric Hamilton
ehamilto@nsf.gov
703-306-1690

Book List

Readers will find listed here books that have mathematical themes and hold appeal for a wide audience, including mathematicians, students, and a significant portion of the general public. In cases where a book has been reviewed in the Notices, *a reference is given to the review. Generally the list will contain only books published within the last two years, though exceptions may be made in cases where current events (e.g., the death of a prominent mathematician, coverage of a certain piece of mathematics in the news) warrant drawing readers' attention to older books. While efforts are made to include as many books as possible, the list is necessarily limited to those books that have come to the attention of the* Notices *editors and that are deemed appropriate for inclusion in the list. Suggestions for books to include on the list may be sent to the managing editor,* e-mail: notices@ams.org.

Against the Gods: The Remarkable Story of Risk, by Peter L. Bernstein, John Wiley & Sons, 1996. ISBN 0-471-12104-5. (Reviewed January 1998)

The Apprenticeship of a Mathematician, by André Weil (translation by Jennifer Gage), Birkhäuser Boston, 1992. ISBN 0-817-62650-6.

A Beautiful Mind: A Biography of John Forbes Nash Jr., by Sylvia Nasar, Simon & Schuster, 1998. ISBN 0-684-81906-6. (Reviewed November 1998)

Challenges, by Serge Lang, Springer-Verlag, 1998. ISBN 0-387-94861-9.

e: The Story of a Number, by Eli Maor, paperback edition, Princeton University Press, 1998. ISBN 0-691-05854-7.

Fashionable Nonsense: Postmodern Intellectuals' Abuse of Science, by Alan Sokal and Jean Bricmont, English version of *Impostures Intellectuelles* (reviewed August 1998), St. Martin's Press, 1998. ISBN 0-312-19545-1.

Fermat's Enigma: The Epic Quest to Solve the World's Greatest Mathematical Problem, by Simon Singh, paperback edition, Bantam Books, 1998. ISBN 0-385-49362-2. (Reviewed November 1997)

Fermat's Last Theorem: Unlocking the Secret of an Ancient Mathematical Problem, by Amir D. Aczel, paperback edition, Delacorte Trade Paper, 1997. ISBN 0-385-31946-0.

The Feynman Processor, by Gerard J. Milburn and Paul Davies, Helix Books, Perseus, 1998. ISBN 0-738-20016-6.

Goodbye, Descartes: The End of Logic and the Search for a New Cosmology of the Mind, by Keith Devlin, John Wiley & Sons, 1998. ISBN 0-471-14216-6.

An Imaginary Tale: The Story of $\sqrt{-1}$, by Paul J. Nahin, Princeton University Press, 1998. ISBN 0-691-02795-1.

The Jungles of Randomness: A Mathematical Safari, by Ivars Peterson, paperback edition, John Wiley & Sons, 1998. ISBN 0-471-29587-6.

Life by the Numbers, by Keith Devlin, John Wiley & Sons, 1998. ISBN 0-471-24044-3.

Logical Dilemmas: The Life and Work of Kurt Gödel, by John W. Dawson Jr., AK Peters, 1997. ISBN 1-568881025-3.

The Man Who Loved Only Numbers: The Story of Paul Erdős and the Search for Mathematical Truth, by Paul Hoffman, Hyperion, 1998. ISBN 0-786-86362-5. (Reviewed October 1998)

Mathematics: From the Birth of Numbers, by Jan Gullberg, Peter Hilton, W.W. Norton, 1997. ISBN 0-393-04002-X.

Modern Mathematics in the Light of the Fields Medals, by Michael Monastyrsky, AK Peters, 1997. ISBN 1-56881-065-2.

Moral Calculations: Game Theory, Logic, and Human Frailty, by László Mérö, Copernicus–Springer-Verlag, 1998. ISBN 0-387-98419-4.

My Brain Is Open: The Mathematical Journeys of Paul Erdős, by Bruce Schecter, Simon & Schuster, 1998. ISBN 0-684-84635-7.

The Nature of Space and Time, by Stephen Hawking and Roger Penrose, Princeton University Press, 1996. ISBN 0-691-03791-4. (Reviewed December 1998)

The Number Devil, by Hans Magnus Enzensberger, Metropolitan Books, 1998. ISBN 0-805-05770-6.

Paul Dirac: The Man and His Work, by Abraham Pais, Maurice Jacob, David Olive, and Michael Atiyah, Cambridge University Press, 1998. ISBN 0-521-58382-9. (Reviewed October 1998)

The Pleasures of Counting, by T. W. Körner, Cambridge University Press, 1996. ISBN 0-521-56087-X; 0-521-56823-4. (Reviewed March 1998)

Polyhedra, by Peter Cromwell, Cambridge University Press, 1997. ISBN 0-521-55432-2. (Reviewed September 1998)

Privacy on the Line: The Politics of Wiretapping and Encryption, by Whitfield Diffie and Susan Landau, MIT Press, 1997. ISBN 0-262-04167-7. (Reviewed June/July 1998)

Randomness, Deborah Bennett, Harvard University Press, 1998. ISBN 0-674-10745-4.

Strength in Numbers, by Sherman Stein, John Wiley & Sons, 1996. ISBN 0-471-152528-8.

The Universe and the Teacup: The Mathematics of Truth and Beauty, by K. C. Cole, Harcourt Brace, 1998. ISBN 0-151-00323-8.

Visual Explanations—Images and Quantities, Evidence and Narrative, by Edward R. Tufte, Graphics Press, Cheshire, CT, 1997. ISBN 0-961-39212-6. (Reviewed January 1998)

Women in Mathematics: The Addition of Difference, by Claudia Henrion, Indiana University Press, 1997. ISBN 0-253-33279-6. (Reviewed May 1998)

About the Cover

A photograph of "Sierpinski Garden", a painting by Khaldoun Khashanah, research assistant professor at Stevens Institute of Technology (`http://attila.stevens-tech.edu/~kkhashan`).

The artist writes, "This painting was inspired by the study and teaching of fractals in early 1997 and the beautiful landscapes of Narrowsburg, NY, on the Delaware River. The painting was completely spontaneous, with no intention of artificially invoking fractals. However, when the painting was completed, it looked to me like the construction of the Sierpinski gasket, or carpet; hence the painting is named "Sierpinski Garden". It seems appropriate to dedicate the painting to some of the creators of the 'mathematical monsters', Cantor, Sierpinski, von Koch, and Peano."

The painting itself is oil on canvas, 38" x 48".

REFLECTIONS