

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.

Contacting the Notices

The preferred method for contacting the Notices is electronic mail. The editor is the person to whom to send articles and letters for consideration. Articles include feature articles, memorial articles, communications, opinion pieces, and book reviews. The editor is also the person to whom to send news of unusual interest about other people's mathematics research.

The managing editor is the person to whom to send items for "Mathematics People", "Mathematics Opportunities", "For Your Information", "Reference and Book List", and "Mathematics Calendar". Requests for permissions, as well as all other inquiries, go to the managing editor.

The electronic-mail addresses are notices@math.wustl.edu in the case of the editor and notices@ams.org in the case of the managing editor. The fax numbers are 314-935-6839 for the editor and 401-331-3842 for the managing editor. Postal addresses may be found in the masthead.

Upcoming Deadlines

September 30, 2010: Nominations for ICTP Ramanujan Prize. See <http://prizes.ictp.it/Ramanujan/>.

September 30, 2010: Nominations for 2010 Sacks Prize. See http://www.asonline.org/Sacks_nominations.html.

September 30, 2010: Full proposals for NSF Integrative Graduate Education and Research

Training (IGERT) program; by invitation only. See http://www.nsf.gov/pubs/2010/nsf10523/nsf10523.htm?WT.mc_id=USNSF_25.

October 1, 2010: Proposals for PIMS support for research activities. See "Mathematics Opportunities" in this issue.

October 1, 2010: Applications for AWM Travel Grants. See <http://www.awm-math.org/travelgrants.html>; telephone: 703-934-0163; email: awm@awm-math.org; or contact Association for Women in Mathematics, 11240 Waples Mill Road, Suite 200, Fairfax, VA 22030.

October 4, 2010: Proposals for minisymposia for ICIAM 2011. See the website <http://www.iciam2011.com/>.

October 15, 2010: Proposals for NSA Grants for Research in Mathematics. See <http://www.nsa.gov/>

[research/math_research/index.shtml](http://www.nsa.gov/research/math_research/index.shtml).

October 20, 2010: Applications for NSF Mathematical Sciences Postdoctoral Research Fellowships. See http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5301.

October 30, 2010: Nominations for Clay Research Fellowships. See the website http://www.clay-math.org/research_fellows. For more information telephone Alagi Patel, 617-995-2602; e-mail patel@claymath.org.

November 1, 2010: Nominations for CRM-Fields-PIMS Prize. Submit nominations to crm-fields-pims-prize@fields.utoronto.ca.

November 1, 2010: Applications for November review for National Academies Postdoctoral and Senior Research Associate-ship Program. See <http://sites>.

Where to Find It

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AMS Bylaws—November 2009, p. 1320

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AMS Ethical Guidelines—June/July 2006, p. 701

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National Science Board—January 2010, p. 68

New Journals for 2008—June/July 2009, p. 751

NRC Board on Mathematical Sciences and Their Applications—March 2010, p. 423

NRC Mathematical Sciences Education Board—April 2010, p. 541

NSF Mathematical and Physical Sciences Advisory Committee—February 2010, p. 272

Program Officers for Federal Funding Agencies—October 2010, p. 1148 (DoD, DoE); December 2007, p. 1359 (NSF); December 2009, p. 1464 (NSF Mathematics Education)

Program Officers for NSF Division of Mathematical Sciences—November 2009, p. 1313

nationalacademies.org/PGA/RAP/PGA_050491 or contact Research Associateship Programs, National Research Council, Keck 568, 500 Fifth Street, NW, Washington, DC 20001; telephone 202-334-2760; fax 202-334-2759; email rap@nas.edu.

November 9, 2010: Proposals for NSF Research Networks in the Mathematical Sciences. See “Mathematics Opportunities” in this issue.

November 19, 2010: Proposals for research programs at CRM. See <http://www.crm.cat/RPApplication>.

December 1, 2010: Letters of intent for proposals for thematic programs at the Bernoulli Center. See the website <http://bernoulli.epfl.ch/new/index.php>.

December 3, 2010: Entries for Ferran Sunyer i Balaguer Prize. See <http://ffsb.iec.cat>.

December 15, 2010: Abstracts for contributed papers for ICIAM. See the website <http://www.iciam2011.com/>.

December 15, 2010: Applications for PIMS Postdoctoral Fellowships. See <http://www.pims.math.ca/scientific/postdoctoral>.

February 1, 2011: Applications for AWM Mentoring Travel Grants. See <http://www.awm-math.org/travelgrants.html#standard>.

February 1, 2011: Applications for AWM Travel Grants. See <http://www.awm-math.org/travelgrants.html#standard>.

May 1, 2011: Applications for AWM Travel Grants. See <http://www.awm-math.org/travelgrants.html#standard>.

October 1, 2011: Applications for AWM Travel Grants. See <http://www.awm-math.org/travelgrants.html#standard>.

October 1, 2011: Nominations for the 2012 Emanuel and Carol Parzen Prize. Contact Thomas Wehrly, Department of Statistics, 3143 TAMU, Texas A&M University, College Station, Texas 77843-3143.

DoD Mathematics Staff

The following agencies of the Department of Defense and the Department of Energy fund research in the mathematical sciences. The names, addresses, and telephone numbers

of the pertinent staff members are listed.

Defense Advanced Research Projects Agency

Defense Sciences Office
3701 North Fairfax Drive
Arlington, VA 22203-1714
703-526-6630
<http://www.darpa.mil/dso>

Applied and Computational Mathematics Program

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Fundamental Mathematics Program

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Sensor Topology for Minimal Planning
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Air Force Office of Scientific Research

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Sensing, Surveillance, and Navigation

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Army Research Office

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Research Triangle Park, NC
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<http://www.arl.army.mil/www/default.cfm?Action=29&Page=216>

Program in Mathematics

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Program in Computing Sciences

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National Security Agency

Mathematical Sciences Program
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http://www.nsa.gov/research/math_research/index.shtml
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MSPgrants@nsa.gov

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DoE Mathematics Program

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Book List

The Book List highlights books that have mathematical themes and are aimed at a broad audience potentially including mathematicians, students, and the general public. When 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. Suggestions for books to include on the list may be sent to notices-booklist@ams.org.

*Added to "Book List" since the list's last appearance.

The Archimedes Codex: How a Medieval Prayer Book Is Revealing the True Genius of Antiquity's Greatest Scientist, by Reviel Netz and William Noel. Da Capo Press, October 2007. ISBN-13: 978-03068-1580-5. (Reviewed September 2008.)

Bright Boys: The Making of Information Technology, by Tom Green.

A K Peters, April 2010. ISBN-13: 978-1-56881-476-6.

The Calculus of Friendship: What a Teacher and Student Learned about Life While Corresponding about Math, by Steven Strogatz. Princeton University Press, August 2009. ISBN-13: 978-0-691-13493-2. (Reviewed June/July 2010.)

The Cult of Statistical Significance: How the Standard Error Costs Us Jobs, Justice, and Lives, by Stephen T. Ziliak and Deirdre N. McCloskey, University of Michigan Press, February 2008. ISBN-13: 978-04720-500-79. (Reviewed in this issue.)

Duel at Dawn: Heroes, Martyrs, and the Rise of Modern Mathematics, by Amir Alexander. Harvard University Press, April 2010. ISBN-13: 978-06740-466-10.

Here's Looking at Euclid: A Surprising Excursion through the Astonishing World of Math, by Alex Bellos. Free Press, June 2010. ISBN-13: 978-14165-882-52.

The Housekeeper and the Professor, by Yoko Ogawa. Picador, February 2009. ISBN-13: 978-03124-278-01. (Reviewed May 2010.)

How to Read Historical Mathematics, by Benjamin Wardhaugh. Princeton University Press, March 2010. ISBN-13: 978-06911-401-48.

Isaac Newton on Mathematical Certainty and Method, by Niccolò Guicciardini. MIT Press, October 2009. ISBN-13: 978-02620-131-78.

Logicomix: An Epic Search for Truth, by Apostolos Doxiadis and Christos Papadimitriou. Bloomsbury USA, September 2009. ISBN-13: 978-15969-145-20.

Logic's Lost Genius: The Life of Gerhard Gentzen, by Eckart Menzler-Trott, Craig Smorynski (translator), Edward R. Griffor (translator). AMS-LMS, November 2007. ISBN-13: 978-0-8218-3550-0.

The Mathematical Mechanic: Using Physical Reason to Solve Problems, by Mark Levi. Princeton University Press, 2009. ISBN-13: 978-0691140209.

Mathematicians: An Outer View of the Inner World, by Mariana Cook. Princeton University Press, June 2009. ISBN-13: 978-0-691-13951-7. (Reviewed August 2010.)

Mathematicians Fleeing from Nazi Germany: Individual Fates and Global Impact, by Reinhard Siegmund-Schultze. Princeton University Press,

July 2009. ISBN-13: 978-0-691-14041-4.

Mathematics in Ancient Iraq: A Social History, by Eleanor Robson. Princeton University Press, August 2008. ISBN-13: 978-06910-918-22. (Reviewed March 2010.)

Mathematics in India, by Kim Plofker. Princeton University Press, January 2009. ISBN-13: 978-06911-206-76. (Reviewed March 2010.)

The Mathematics of Egypt, Mesopotamia, China, India, and Islam: A Sourcebook, by Victor J. Katz et al. Princeton University Press, July 2007. ISBN-13: 978-0-6911-2745-3.

The Millennium Prize Problems, edited by James Carlson, Arthur Jaffe, and Andrew Wiles. AMS, June 2006. ISBN-13: 978-08218-3679-8. (Reviewed December 2009.)

More Mathematical Astronomy Morsels, by Jean Meeus. Willmann-Bell, 2002. ISBN 0-943396743.

Mrs. Perkins's Electric Quilt: And Other Intriguing Stories of Mathematical Physics, Paul J. Nahin, Princeton University Press, August 2009. ISBN-13: 978-06911-354-03.

Naming Infinity: A True Story of Religious Mysticism and Mathematical Creativity, by Loren Graham and Jean-Michel Kantor. Belknap Press of Harvard University Press, March 2009. ISBN-13: 978-06740-329-34.

Numbers Rule: The Vexing Mathematics of Democracy, from Plato to the Present, by George G. Szpiro. Princeton University Press, April 2010. ISBN-13: 978-06911-399-44.

The Numerati, by Stephen Baker. Houghton Mifflin, August 2008. ISBN-13: 978-06187-846-08. (Reviewed October 2009.)

Our Days Are Numbered: How Mathematics Orders Our Lives, by Jason Brown. Emblem Editions, April 2010. ISBN-13: 978-07710-169-74.

A Passion for Discovery, by Peter Freund. World Scientific, August 2007. ISBN-13: 978-9-8127-7214-5

Perfect Rigor: A Genius and the Mathematical Breakthrough of the Century, by Masha Gessen. Houghton Mifflin Harcourt, November 2009. ISBN-13: 978-01510-140-64.

Pioneering Women in American Mathematics: The Pre-1940 Ph.D.'s, by Judy Green and Jeanne LaDuke. AMS, December 2008. ISBN-13: 978-08218-4376-5.

Plato's Ghost: The Modernist Transformation of Mathematics, by Jeremy Gray. Princeton University Press, September 2008. ISBN-13: 978-06911-361-03. (Reviewed February 2010.)

The Princeton Companion to Mathematics, edited by Timothy Gowers (June Barrow-Green and Imre Leader, associate editors). Princeton University Press, November 2008. ISBN-13: 978-06911-188-02. (Reviewed November 2009.)

Probabilities: The Little Numbers That Rule Our Lives, by Peter Olofsson. Wiley, March 2010. ISBN-13: 978-04706-244-56.

Proofs from THE BOOK, by Martin Aigner and Günter Ziegler. Expanded fourth edition, Springer, October 2009. ISBN-13: 978-3-642-00855-9

Pythagoras' Revenge: A Mathematical Mystery, by Arturo Sangalli. Princeton University Press, May 2009. ISBN-13: 978-06910-495-57. (Reviewed May 2010.)

Recountings: Conversations with MIT Mathematicians, edited by Joel Segel. A K Peters, January 2009. ISBN-13: 978-15688-144-90.

Roger Boscovich, by Radoslav Dimitric (Serbian). Helios Publishing Company, September 2006. ISBN-13: 978-09788-256-21.

Sacred Mathematics: Japanese Temple Geometry, by Fukagawa Hidetoshi and Tony Rothman. Princeton University Press, July 2008. ISBN-13: 978-0-6911-2745-3.

**The Shape of Inner Space: String Theory and the Geometry of the Universe's Hidden Dimensions*, by Shing-Tung Yau (with Steve Nadis). Basic Books, September 2010. ISBN-13: 978-04650-202-32.

The Solitude of Prime Numbers, by Paolo Giordano. Pamela Dorman Books, March 2010. ISBN-13: 978-06700-214-82. (Reviewed September 2010.)

Solving Mathematical Problems: A Personal Perspective, by Terence Tao. Oxford University Press, September 2006. ISBN-13: 978-0-199-20560-8. (Reviewed February 2010.)

Sphere Packing, Lewis Carroll, and Reversi, by Martin Gardner. Cambridge University Press, July 2009. ISBN-13: 978-0521756075.

The Strangest Man, by Graham Farmelo. Basic Books, August 2009. ISBN-13: 978-04650-182-77.

Street-Fighting Mathematics: The Art of Educated Guessing and Opportunistic Problem Solving, by Sanjoy Mahajan. MIT Press, March 2010. ISBN-13: 978-0-262-51429-3.

Symmetry in Chaos: A Search for Pattern in Mathematics, Art, and Nature, by Michael Field and Martin Golubitsky. Society for Industrial and Applied Mathematics, second revised edition, May 2009. ISBN-13: 978-08987-167-26.

Teaching Statistics Using Baseball, by James Albert. Mathematical Association of America, July 2003. ISBN-13: 978-08838-572-74. (Reviewed April 2010.)

Tools of American Math Teaching, 1800–2000, by Peggy Aldrich Kidwell, Amy Ackerberg-Hastings, and David Lindsay Roberts. Johns Hopkins University Press, July 2008. ISBN-13: 978-0801888144. (Reviewed January 2010.)

The Unfinished Game: Pascal, Fermat, and the Seventeenth-Century Letter That Made the World Modern, by Keith Devlin. Basic Books, September 2008. ISBN-13: 978-0-4650-0910-7.

Zeno's Paradox: Unraveling the Ancient Mystery behind the Science of Space and Time, by Joseph Mazur. Plume, March 2008 (reprint edition). ISBN-13: 978-0-4522-8917-8.

About the cover

The French Quarter

The cover illustration for this issue is an ink and felt pen sketch of Royal Street in the Vieux Carré of New Orleans, site of this year's Joint Mathematics Meetings. It was drawn in 1998 by Karl Hofmann, faculty member at both Tulane University and the University of Darmstadt. His tools were a Staedtler calligraphic pen and a few felt pens.

Karl says, "New Orleanians call the French Quarter, the oldest part of their town, the 'Vieux Carré', indicating at the same time its old history and its European flavor, preserved to this day: bustling with tourists and locals alike, with jazz musicians, artists, tarot readers, and other performers in Royal Street and around Jackson Square. A friend of mine commented that the black-and-white rendition conjured up in him the impression of yesterday's authenticity of the time of black-and-white photographs."

Karl was also responsible for the *Notices* cover associated with the last annual meeting in New Orleans (2007). We are grateful to him for both.

—Bill Casselman
Graphics Editor
(notices-covers@ams.org)