

# 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.ou.edu` in the case of the editor and `notices@ams.org` in the case of the managing editor. The fax numbers are 405-325-7484 for the editor and 401-331-3842 for the managing editor. Postal addresses may be found in the masthead.

## Upcoming Deadlines

**October 22, 2009:** Full proposals for Research Experiences for Undergraduates (REU) sites. See "Mathematics Opportunities" in this issue.

**November 2, 2009:** Applications for NRC-Ford Foundation Predoctoral Fellowships. See <http://sites.nationalacademies.org/pga/FordFellowships/index.htm>; telephone: 202-334-2872; email:

`infofell@nas.edu`; or contact Fellowships Office, Keck 576, National Research Council, 500 Fifth Street, NW, Washington, DC 20001.

**November 4, 2009:** Full proposals for NSF Graduate Research Fellowships. See "Mathematics Opportunities" in this issue.

**November 9, 2009:** Applications for NRC-Ford Foundation Dissertation and Postdoctoral Fellowships. See <http://sites.nationalacademies.org/pga/FordFellowships/index.htm>; telephone: 202-334-2872; email: `infofell@nas.edu`; or contact Fellowships Office, Keck 576, National Research Council, 500 Fifth Street, NW, Washington, DC 20001.

**November 12, 2009:** Full proposals for NSF Project ADVANCE Institutional Transformation (IT) and Institutional Transformation

Catalyst (IT-Catalyst) awards. See <http://www.nsf.gov/pubs/2009/nsf09504/nsf09504.htm>.

**November 15, 2009:** Applications for National Academies Research Associateship Programs. See <http://www7.nationalacademies.org/rap/> 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`.

**December 1, 2009:** Applications for AMS Centennial Fellowships. See <http://www.ams.org/employment/centflyer.html>; telephone 401-455-4105; email: `prof-serv@ams.org`; or contact the Membership and Programs Department, American Mathematical Society, 201 Charles Street, Providence, RI 02904-2294.

## Where to Find It

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

**AMS Bylaws**—November 2009, p. 1320

**AMS Email Addresses**—February 2009, p. 278

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

**AMS Officers 2008 and 2009 Updates**—May 2009, p. 651

**AMS Officers and Committee Members**—October 2009, p. 1133

**Conference Board of the Mathematical Sciences**—September 2009, p. 977

**IMU Executive Committee**—December 2008, p. 1441

**Information for Notices Authors**—June/July 2009, p. 749

**Mathematics Research Institutes Contact Information**—August 2009, p. 854

**National Science Board**—January 2009, p. 67

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

**NRC Board on Mathematical Sciences and Their Applications**—March 2009, p. 404

**NRC Mathematical Sciences Education Board**—April 2009, p. 511

**NSF Mathematical and Physical Sciences Advisory Committee**—February 2009, p. 278

**Program Officers for Federal Funding Agencies**—October 2009, p. 1126 (DoD, DoE); December 2007, p. 1359 (NSF); December 2008, p. 1440 (NSF Mathematics Education)

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

**December 4, 2009:** Entries for 2009 Ferran Sunyer i Balaguer Prize. See <http://ffsb.iec.cat>.

**December 8, 2009:** Applications for East Asia and Pacific Summer Institutes (EAPSI). See "Mathematics Opportunities" in this issue.

**December 15, 2009:** Applications for AMS Epsilon Fund grants. See <http://www.ams.org/outreach/epsilon.html> or contact the AMS Membership and Programs Department, telephone: 800-321-4267, ext. 4170; email: [prof-serv@ams.org](mailto:prof-serv@ams.org) or by telephone at 800-321-4267, ext. 4170.

**December 15, 2009:** Nominations for the International Mathematical Union (IMU) Chern Medal Award. See <http://www.mathunion.org/fileadmin/IMU/Prizes/Chern/>.

**January 10, 2010:** Applications for AAUW Educational Foundation Fellowships and Grants. See "Mathematics Opportunities" in this issue.

**January 15, 2010:** Applications for AMS-AAAS Mass Media Summer Fellowships. See <http://www.aaas.org/programs/education/MassMedia/>, or contact Stacey Pasco, Manager, Mass Media Program, AAAS Mass Media Science and Engineering Fellows Program, 1200 New York Avenue, NW, Washington, DC 20005; telephone 202-326-6441; fax 202-371-9849; email: [spasco@aaas.org](mailto:spasco@aaas.org). Also see <http://www.ams.org/government/massmediaann.html> or contact the AMS Washington Office, 1527 Eighteenth Street, NW, Washington, DC 20036; telephone 202-588-1100; fax 202-588-1853; email: [amsdc@ams.org](mailto:amsdc@ams.org).

**January 15, 2010:** Applications for Jefferson Science Fellows Program. See "Mathematics Opportunities" in this issue.

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

**February 15, 2010:** Applications for AMS-AAAS Congressional Fellowship.

See "Mathematics Opportunities" in this issue.

**April 15, 2010:** Applications for fall 2010 semester of Math in Moscow. See <http://www.mccme.ru/mathinmoscow> or write to: Math in Moscow, P.O. Box 524, Wynnwood, PA 19096; fax: +7095-291-65-01; email: [mim@mccme.ru](mailto:mim@mccme.ru). For information on AMS scholarships see <http://www.ams.org/outreach/mimoscow.html> or write to: Math in Moscow Program, Membership and Programs Department, American Mathematical Society, 201 Charles Street, Providence RI 02904-2294; email: [student-serv@ams.org](mailto:student-serv@ams.org).

**May 1, 2010:** Applications for AWM Travel Grants. See <http://www.awm-math.org/travelgrants.html>; telephone: 703-934-0163; or email: [awm@awm-math.org](mailto:awm@awm-math.org). The postal address is: Association for Women in Mathematics, 11240 Waples Mill Road, Suite 200, Fairfax, VA 22030.

**June 1, 2010:** Applications for NSF's Enhancing the Mathematical Sciences Workforce in the Twenty-First Century (EMSW21) program. See <http://www.nsf.gov/pubs/2005/nsf05595/nsf05595.htm>.

**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](mailto:awm@awm-math.org); or contact Association for Women in Mathematics, 11240 Waples Mill Road, Suite 200, Fairfax, VA 22030.

### NSF Division of Mathematical Sciences

Listed below are names, email addresses, and telephone numbers for the program directors for the present academic year in the Division of Mathematical Sciences (DMS) of the National Science Foundation. The postal address is: Division of Mathematical Sciences, National Science Foundation, Room 1025, 4201 Wilson Boulevard, Arlington, VA 22230. The DMS Web page is <http://www.nsf.gov/div/index.jsp?div=DMS>.

*Algebra, Number Theory, Combinatorics, and Foundations*  
Zongzhu Lin  
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## Reference and Book List

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### *Geometric Analysis and Topology Program*

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The administrative staff includes:

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**Operations Specialist**  
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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 Annotated Turing: A Guided Tour Through Alan Turing's Historic Paper on Computability and the Turing Machine*, by Charles Petzold. Wiley, June 2008. ISBN-13: 978-04702-290-57.

*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: 978-06911-349-32.

*Chez les Weils* (French), by Sylvie Weil. Buchet-Chastel, January 2009. ISBN-13: 978-22830-236-93.

*Crocheting Adventures with Hyperbolic Planes*, by Daina Taimina. A K Peters, March 2009. ISBN-13: 978-15688-145-20.

*Decoding the Heavens: A 2,000-Year-Old Computer—and the Century-Long Search to Discover Its Secrets*, by Jo Marchant. Da Capo Press, February 2009. ISBN-13: 978-03068-174-27.

*Dimensions*, by Jos Leys, Etienne Ghys, and Aurélien Alvarez. DVD, 117 minutes. Available at <http://www.dimensions-math.org>.

*Einstein's Mistakes: The Human Failings of Genius*, by Hans C. Ohanian. W. W. Norton, September 2008. ISBN-13: 978-0393062939.

*Embracing the Wide Sky: A Tour Across the Horizons of the Human Mind*, by Daniel Tammet. Free Press, January 2009. ISBN-13: 978-14165-696-95.

*Emmy Noether: The Mother of Modern Algebra*, by M. B. W. Tent. A K Peters, October 2008. ISBN-13: 978-15688-143-08. (Reviewed October 2009.)

*Euler's Gem: The Polyhedron Formula and the Birth of Topology*, by David S. Richeson. Princeton University Press, September 2008. ISBN-13: 97-80691-1267-77.

*Fighting Terror Online: The Convergence of Security, Technology and the Law*, by Martin Charles Golumbic. Springer, 2008. ISBN: 978-0-387-73577-1.

*Gaming the Vote (Why Elections Aren't Fair and What We Can Do About It)*, by William Poundstone. Hill and Wang, February 2009. ISBN-13: 978-08090-489-22.

*GeekSpeak: How Life + Mathematics = Happiness*, by Graham Tattersall. Collins, September 2008. ISBN-13: 978-00616-292-42.

*Geometric Origami*, by Robert Geretschläger. Arbelos, October 2008. ISBN-13: 978-09555-477-13.

*Hexaflexagons, Probability Paradoxes, and the Tower of Hanoi: Martin Gardner's First Book of Mathematical Puzzles and Games*, by Martin Gardner. Cambridge University Press, September 2008. ISBN-13: 978-0-521-73525-4.

*The Housekeeper and the Professor*, by Yoko Ogawa. Picador, February 2009. ISBN-13: 978-03124-278-01.

*How to Think Like a Mathematician: A Companion to Undergraduate Mathematics*, by Kevin Houston. Cambridge University Press, March 2009. ISBN-13: 978-05217-197-80.

*Is God a Mathematician?* by Mario Livio. Simon & Schuster, January 2009. ISBN-13: 978-07432-940-58.

*Kiss My Math: Showing Pre-Algebra Who's Boss*, by Danica McKellar. Hudson Street Press, August 2008. ISBN-13: 978-1594630491.

*The Last Theorem*, by Arthur C. Clarke and Frederik Pohl. Del Rey, August 2008. ISBN-13: 978-0345470218.

*Leonhard Euler and His Friends: Switzerland's Great Scientific Expatriate*, by Luis-Gustave du Pasquier (translated by John S. D. Glaus). CreateSpace, July 2008. ISBN: 978-14348-332-73.

*The Map of My Life*, by Goro Shimura. Springer, September 2008. ISBN-13: 978-03877-971-44.

*Unite!: The International Congress of Mathematicians: A Human Endeavor*, by Guillermo P. Curbera. A K Peters, March 2009. ISBN-13: 978-15688-133-01.

*Mathematics and the Aesthetic: New Approaches to an Ancient Affinity*, edited by Nathalie Sinclair, David Pimm, and William Higginson. Springer, November 2006. ISBN-13: 978-03873-052-64. (Reviewed February 2009.)

*Mathematics Emerging: A Sourcebook 1540–1900*, by Jacqueline Stedall. Oxford University Press, November 2008. ISBN-13: 978-01992-269-00.

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

*Mathematics in India*, by Kim Plofker. Princeton University Press, January 2009. ISBN-13: 978-06911-206-76.

*Mathematics in 10 Lessons: The Grand Tour*, by Jerry P. King. Prometheus Books, May 2009. ISBN: 978-1-59102-686-0.

*Number and Numbers*, by Alain Badiou. Polity, June 2008. ISBN-13: 978-07456-387-82.

*The Numbers Game: The Common-sense Guide to Understanding Numbers in the News, in Politics, and in Life*, by Michael Blastland and Andrew Dilnot. Gotham, December 2008. ISBN-13: 978-15924-042-30.

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

*Origami, Eleusis, and the Soma Cube: Martin Gardner's Mathematical Diversions*, by Martin Gardner. Cambridge University Press, September 2008. ISBN-13: 978-0-521-73524-7.

*Our Days Are Numbered: How Mathematics Orders Our Lives*, by Jason Brown. McClelland and Stewart, April 2009. ISBN-13: 978-07710-169-67.

*Picturing the Uncertain World: How to Understand, Communicate, and Control Uncertainty Through Graphical Display*, by Howard Wainer. Princeton University Press, April 2009. ISBN-13: 978-06911-375-99.

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

*The Princeton Companion of 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 in this issue.)

*Professor Stewart's Cabinet of Mathematical Curiosities*, by Ian Stewart. Basic Books, December 2008. ISBN-13: 978-0-465-01302-9.

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

*Pythagorean Crimes*, by Tefcros Michalides. Parmenides Publishing, September 2008. ISBN-13: 978-19309-722-78. (Reviewed January 2009.)

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

*Rock, Paper, Scissors: Game Theory in Everyday Life*, by Len Fisher. Basic Books, November 2008. ISBN-13: 978-04650-093-81.

*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 Content: An Anthology of Creative Writing in Mathematics and Science*, edited by Chandler Davis, Marjorie Wikler Senechal, and Jan Zwicky. A K Peters, November 2008. ISBN-13: 978-15688-144-45.

*Souvenirs sur Sofia Kovalevskaya* (French), by Michèle Audin. Calvage et Mounet, October 2008. ISBN-13: 978-29163-520-53.

*Strange Attractors: Poems of Love and Mathematics*, edited by Sarah Glaz and JoAnne Growney. A K Peters, November 2008. ISBN-13: 978-15688-134-17. (Reviewed September 2009.)

*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.

*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.

*The Unimaginable Mathematics of Borges' Library of Babel*, by William Goldbloom Bloch. Oxford University Press, August 2008. ISBN-13: 978-01953-345-79.

*What Is a Number?: Mathematical Concepts and Their Origins*, by Robert Tubbs. Johns Hopkins University Press, December 2008. ISBN-13: 978-08018-901-85.

*What's Happening in the Mathematical Sciences*, by Dana Mackenzie. AMS, 2009. ISBN-13: 978-08218-447-86.

*Why Does  $E=mc^2$ ? (And Why Should We Care?)*, by Brian Cox and Jeff Forshaw. Da Capo Press, July 2009. ISBN-13: 978-03068-175-88.