

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

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.

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

January 4, 2010: Applications for NDSEG Fellowship Program. See "Mathematics Opportunities" in this issue.

January 10, 2010: Applications for AAUW Educational Foundation Fellowships and Grants. See http://www.aauw.org/fga/fellowships_grants/selected.cfm or contact the AAUW Educational Foundation, Selected Professions Fellowships, Dept. 60, 301 ACT Drive, Iowa City, IA 52243-4030; telephone: 800-326-2289; email: connect@aauw.org.

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. Also see <http://www.ams.org/government/massmediaaann.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.

January 15, 2010: Applications for Jefferson Science Fellows Program. See <http://www7.nationalacademies.org/jefferson/> or email: jsf@nas.edu or telephone 202-334-2643.

January 28, 2010: Proposals for National Science Foundation Scientific Computing Research Environments for the Mathematical Sciences (SCREMS). See <http://www.nsf.gov/pubs/2007/nsf07502/nsf07502.htm>.

February 1, 2010: Applications for February review for National Academies Postdoctoral and Senior Research Associateship Program.

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 2009, p. 1465

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

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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 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 2009, p. 1464 (NSF Mathematics Education)

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

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; or contact Association for Women in Mathematics, 11240 Waples Mill Road, Suite 200, Fairfax, VA 22030.

February 5, 2010: Applications for Math for America Fellowship Program. See <http://www.mathforamerica.org/>.

February 5, 2010: Applications for PIMS IGTC Fellowship for 2010–2011. See “Mathematics Opportunities” in this issue.

February 15, 2010: Applications for Enhancing Diversity in Graduate Education (EDGE) Summer Program. See http://www.edgeforwomen.org/?page_id=5.

February 15, 2010: Applications for Institute for Pure and Applied Mathematics (IPAM) Research in Industrial Projects for Students (RIPS) undergraduate summer research program. See <http://www.ipam.ucla.edu>.

February 15, 2010: Applications for AMS-AAAS Congressional Fellowship. See <http://www.ams.org/government/congressfellowann.html> or contact the AMS Washington Office, telephone: 202-588-1100; email: amsdc@ams.org.

February 27, 2010: Entries for AWM Essay Contest. 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. For information on AMS scholarships see <http://www.ams.org/employment/mimoscw.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.

May 1, 2010: Applications for May review for National Academies Postdoctoral and Senior Research Asso-

ciateship Program. See “Mathematics Opportunities” in this issue.

May 1, 2010: Applications for the fall 2010 program of the Christine Mirzayan Science and Technology Policy Graduate Fellowship program of the National Academies. See <http://sites.nationalacademies.org/PGA/policyfellows/index.htm> or contact The National Academies Christine Mirzayan Science and Technology Policy Graduate Fellowship Program, 500 Fifth Street, NW, Room 508, Washington, DC 20001; telephone: 202-334-2455; fax: 202-334-1667; email: policyfellows@nas.edu.

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. 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>.

August 1, 2010: Applications for August review for National Academies Postdoctoral and Senior Research Associateship Program. 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.

November 1, 2010: Applications for November review for National Academies Postdoctoral and Senior Research Associateship Program. See “Mathematics Opportunities” in this issue.

National Science Board

The National Science Board is the policymaking body of the National Science Foundation. Listed below are the current members of the NSB. For further information, visit the website <http://www.nsf.gov/nsb/>.

Mark R. Abbott
Dean and Professor
College of Oceanic and Atmospheric Sciences
Oregon State University

Dan E. Arvizu
Director and Chief Executive
National Renewable Energy Laboratory (NREL)

Barry C. Barish (Consultant)
Linde Professor of Physics Emeritus
Director, Laser Interferometer Gravitational-Wave Observatory (LIGO)
California Institute of Technology

Steven C. Beering (Chair)
President Emeritus
Purdue University

Camilla P. Benbow
Patricia and Rodes Hart Dean of Education and Human Development
Peabody College of Education and Human Development
Vanderbilt University

Ray M. Bowen
President Emeritus
Texas A&M University

John T. Bruer
President
James S. McDonnell Foundation
St. Louis, Missouri

G. Wayne Clough
Secretary
Smithsonian Institution

France A. Cordova
President
Purdue University

Kelvin K. Droegemeier
Associate Vice President for Research
Regents’ Professor of Meteorology and Weathernews Chair
University of Oklahoma

Patricia D. Galloway (Vice Chair)
Chief Executive Officer
Nielsen-Wurster Group, Inc.
Seattle, Washington

José-Marie Griffiths
Dean
School of Information and
Library Science
University of North Carolina,
Chapel Hill

Esin Gulari
Dean of Engineering and Science
Clemson University

Elizabeth Hoffman (Consultant)
Executive Vice President and
Provost
Iowa State University

Louis J. Lanzerotti
Distinguished Research Professor
of Physics
Center for Solar Terrestrial
Research
New Jersey Institute of Technology

Alan I. Leshner
Chief Executive Officer
American Association for the
Advancement of Science

G. P. Peterson
President
Georgia Institute of Technology

Douglas D. Randall
Professor of Biochemistry and
Thomas Jefferson Fellow
Director, Interdisciplinary Plant
Group
University of Missouri

Arthur K. Reilly
Senior Director
Cisco Systems, Inc.

Diane L. Souvaine
Professor and Chair, Computer
Science
Tufts University

Jon C. Strauss
Interim Dean of Engineering
Texas Tech University

Kathryn D. Sullivan
Director
Battelle Center for Mathematics
and Science Education Policy
John Glenn School of Public Affairs
Ohio State University

Thomas N. Taylor
Roy A. Roberts Distinguished
Professor
Department of Ecology and
Evolutionary Biology
Curator of Paleobotany in the
Natural History Museum and
Biodiversity Research Center
University of Kansas

Richard F. Thompson
Keck Professor of Psychology
and Biological Sciences
University of Southern California

Arden L. Bement Jr.
(member ex officio)
Director
National Science Foundation

Craig R. Robinson
Executive Officer and Acting
Office Director
National Science Board

The contact information for the Board is: National Science Board, National Science Foundation, 4201 Wilson Boulevard, Room 1225N, Arlington, VA 22230; telephone 703-292-7000; World Wide Web <http://www.nsf.gov/nsb/>.

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 978-03068-1580-5. (Reviewed September 2008.)

The Best of All Possible Worlds: Mathematics and Destiny, by Ivar Ekeland. University of Chicago Press, October 2006. ISBN-13: 978-0-226-19994-8. (Reviewed March 2009.)

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.

The Calculus Wars: Newton, Leibniz, and the Greatest Mathematical Clash of All Time, by Jason Socrates Bardi. Thunder's Mouth Press, April 2007. ISBN-13: 978-15602-5992-3. (Reviewed May 2009.)

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

Crossing the Equal Sign, by Marion D. Cohen. Plain View Press, January 2007. ISBN-13: 978-18913-866-95.

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.

The Drunkard's Walk: How Randomness Rules Our Lives, by Leonard Mlodinow. Pantheon, May 2008. ISBN-13: 978-03754-240-45.

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.

Ernst Zermelo: An Approach to His Life and Work, by Heinz-Dieter Ebbinghaus. Springer, April 2007. ISBN-13 978-3-540-49551-2. (Reviewed August 2009.)

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.

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

How Math Explains the World: A Guide to the Power of Numbers, from Car Repair to Modern Physics, by

James D. Stein. Collins, April 2008. ISBN-13: 978-00612-417-65.

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.

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.

Lewis Carroll in Numberland: His Fantastical Mathematical Logical Life: An Agony in Eight Fits, by Robin Wilson. W. W. Norton & Company. ISBN-13: 978-03930-602-70.

**Mathematicians Fleeing from Nazi Germany: Individual Fates and Global Impact*, by Reinhard Siegmund-Schultze. Princeton University Press, July 2009. ISBN 978-0-691-14041-4.

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

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.

Mathematicians of the World, 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 Common Sense: A Case of Creative Tension, by Philip J. Davis. A K Peters, October 2006. ISBN 1-568-81270-1. (Reviewed June/July 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.

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.

The Numbers Behind NUMB3RS: Solving Crime with Mathematics, by Keith Devlin and Gary Lorden. Plume, August 2007. ISBN-13: 978-04522-8857-7. (Reviewed March 2009.)

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.)

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

Out of the Labyrinth: Setting Mathematics Free, by Robert Kaplan and Ellen Kaplan. Oxford University Press, January 2007. ISBN-13: 978-0-19514-744-5. (Reviewed June/July 2009.)

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

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 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.)

Pythagoras' Revenge: A Mathematical Mystery, by Arturo Sangalli.

Princeton University Press, May 2009. ISBN-13: 978-06910-495-57.

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.

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

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.)

Super Crunchers: Why Thinking-by-Numbers Is the New Way to Be Smart, by Ian Ayres. Bantam, August 2007. ISBN-13: 978-05538-054-06. (Reviewed April 2009.)

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

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.

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.

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.