

Outside Reading Suggestions

Winter Quarter, 2008,

Wil Clarke—May 19, 2008,

The following articles are all available at the periodical desk of the La Sierra University Library.

General Interest

- Bailey, R.A. "Sudoku, gerechte designs, resolutions, affine space, spreads, regalia and Hamming codes," *Monthly* May 2008, p383
- Benjamin, Arthur "Dinner tables and concentric circles: A harmony of mathematics, music and physics," *Coll Math J* May 2008, p203
- Haunsperger, Deanna "A Break for mathematics: an interview with Joe Gallian," *Coll Math J* May 2008, p174
- Shermer, Michael "The Doping Dilemma," *Sci Amer* Apr 2008, p82
- Hirshon, R. "An offer you can't refuse," *Math Mag* Apr 2008, p146
- Edwards, Michael "Are you connected? Fostering exploration with unexpected graphs," *Math Teach* Feb 2008, p412
- Suzuki, Jeff "A brief history of impossibility," *Math Mag* Feb 2008, p27
- Zimmerman, Seth "On infinitely nested radicals," *Math Mag* Feb 2008, p3
- Balinski, Michel "Fair majority voting (or how to eliminate gerrymandering)," *Monthly* Feb 2008, p97
- Bukowski, John "Christiaan Huygens and the problem of the hanging chain," *Coll Math J* Jan 2008 p2
- Matson, John "Does infinity come in different sizes?" *Sci Amer* Jan 2008, p112
- Previte, Michelle "A novel way to generate fractals," *Monthly* Jan 2008, p13
- Winsor, Matthew "Bridging the language barrier in mathematics," *Math Teach* Dec 2007 p372
- Hadlock, Charles "Practicing mathematics in the publis arena: challenges and outcomes in some prominent case studies," *Monthly* Dec 2007, p849
- Christensen, Chris "Polish mathematicians finding patterns in Enigma Messages," *Math Mag* Oct 2007, p247
- Callaghan, Thomas "Random walker ranking for NCAA Division 1-A football," *Monthly* Nov 2007, p761
- Minton, Roland "Do dogs know bifurcations?" *Coll Math J* Nov 2007, p356
- Horton, Peter "No fooling! Newton's Method can be fooled," *Math Mag* Dec 2007, p383
- Sinn, Robb "Who will win? Predicting the presidential election using linear regression," *Math Teach* Oct 2007, p185
- Derksen, Harm "Multimagic squares," *Monthly* Oct 2007, p703
- Kim, Scott "Think inside the box," *Discover* Feb 2008, p76
- Raeburn, Elizabeth "If there's really only six degrees of separation between us and Osama bin Laden, why can't we find him?" *Discover* Feb 2008, p 42
- Kulm, Gerald "The achievement gap—do we need a new strategy?" *Sch Sci & Math* Nov 2007, p267
- Quadling, Douglas "Further forays into n dimensions," *Math Gaz* Nov 2007, p462
- Hall, Rachel "A course in multicultural mathematics," *Primus* July 2007, p209
- Wilson, Robin; Review "Arthur Cayley: Mathematician Laureate of the Victorian Age," *Hist Math* Nov 2007, p436
- Green, Kris "Cryptology in a Liberal Arts Setting," *Math & Comp Ed* Fall 2007, p211
- Sinn, Rob "Ecosystem simulations and chaos on the graphing calculator," *Math Teach* Oct 2007 p167

- Hubbard, Miles "Creating and exploring simple models," *Math Teach* Oct 2007 p193
- Walker, Janet "Where have all the flowers gone?" *Math Teach* Sep 2007 p88
- Seiple, Derek "Mom! There's an Asteroid in my closet!" *Math Mag* Apr 2007, p104
- Kalman, Dan "Solving the ladder problem on the back of an envelope," *Math Mag* Jun 2007 p163
- Gonzalez-Velasco, Enrique "James Gregory's calculus in the *Geometriae Pars Universalis*,"
Monthly Aug 2007, p565
- Berger, Arno "Newton's method obeys Benford's Law," *Monthly* Aug 2007, p577
- Apostol, Tom "Unwrapping curves from cylinders and cones," *Monthly* May 2007, p388
- Everest, Graham "Primes generated by recurrence sequences," *Monthly* May 2007, p417
- Martinez, Alberto "Euler's "Mistake"? The radical product rule in historical perspective," *Monthly*
Apr 2007, p273
- Socha, Katherine "Conway's napkin problem," *Monthly* Mar 2007 p217
- Rozema, Edward "Epidemic models for SARS and measles," *Coll Math J* Sep 2007, p246
- Smanisinova, Ingrid "Discovering the magic of magic squares," *Math Teach* Aug 2007 p32
- Quinn, Robert "Explore, conjecture, connect, prove: the versatility of a rich geometry problem,"
Math Teach Aug 2007 p8
- Sharp, Brian "Making the most of digital imagery," *Math Teach* May 2007 p590
- Curtin, Ciara "Do living people outnumber the dead?" *Sci Am*, Sep 2007 p126
- Osler, Thomas "Lucky fractions: where bad arithmetic gives correct results," *Math & Comp Ed*
Spring 2007, p162
- Christianidis, Jean "The way of Diophantus: some clarifications on Diophantus' method of
solution," *Hist Math* Aug 2007, p289
- Aravind, P.K. "The hypercubical dance," *Math Gaz* Jul 2007, p193
- Lewis, Barry "Trigonometry and the Fibonacci numbers," *Math Gaz* Jul 2007, p216
- Sirotic, N "Irrational numbers on the number line—where are they?" *Hist Math* Aug 2007, p477
- Walker, Sandra "Using technology to teach developmental African-American algebra students," *J*
Comp Math vol 26 no 3, 2007 p217
- Maddox, "Blinded by Science," *Discover* Oct 2007, p82
- Lentini, Lisa "One universe, under God," *Discover* Oct 2007, p74
- Kao, Kathleen Kao "Losing the lead," *Discover* Oct 2007, p80
- Lord, Nick "An amusing sequence of trigonometrical integrals," *Math Gaz* Jul 2007, p281
- Ellis, Mark "Constructing a personal understanding of mathematics: making the pieces fit," *Math*
Teach Apr 2007, p518
- Lamier, Jason "Jason's world," *Discover* Apr 2007, p28
- Fehr, Howard "The role of insight in the learning of mathematics," *Math Teach* Jan 2007, p40
- Johnson, David "The element of surprise: an effective classroom technique," *Math Teach* Jan 2007,
p56
- Usiskin, Zalman "What should not be in the algebra and geometry curricula of average college-
bound students," *Math Teach* Jan 2007, p68
- Leacock, Stephen "Human interest put into mathematics," *Math Teach* Feb 2007, p388
- Wanko, Jeffrey "The Internet: problem solving friend or foe?" *Math Teach* Feb 2007, p402
- Burroughs, Elizabeth "Encouraging preservice mathematics teachers as mathematicians," *Math*
Teach Mar 2007, p464
- Albers, Don "John Todd—Numerical Mathematics pioneer," *Coll Math J* Jan 2007, p2
- Ecker, Michael "Maximizing the probability of a big sweepstakes win," *Coll Math J* Jan 2007, p32
- Goering, David "The River Crossing Game," *Math Mag* Feb 2007 p3
- Robinson, Ian "Weighty Matters," *Sci Amer* Dec 2006, p102
- Shermer, Michael "Bowling for God," *Sci Amer* Dec 2006, p44
- Bell, Gordon "A digital life," *Sci Amer* Mar 2007, p58

Auckly, Dave “Solving the quartic with a pencil,” *Monthly* Jan 2007, p29

Geometry

- Rosenberg, Steven “Heron Triangles and moduli spaces,” *Math Teach* May 2008, p656
- Bailey, R.A. “Sudoku, gerechte designs, resolutions, affine space, spreads, regalia and Hamming codes,” *Monthly* May 2008, p383
- Gordon, Russell “Squaring a circular segment,” *Coll Math J* May 2008, p212
- Pak, Igor “Inflating the cube without stretching,” *Monthly* May 2008, 443
- Iseri, Howard “An exploration of Pick’s Theorem in space,” *Math Mag* Apr 2008, p106
- Piatek-Jimenez, Katrina “Building intuitive arguments for the triangle congruence conditions,” *Math Teach* Feb 2008, p463
- Suzuki, Jeff “A brief history of impossibility,” *Math Mag* Feb 2008, p27
- Nelsen, Roger “Euler’s triangle inequality via proofs without words,” *Math Mag* Feb 2008, p62
- Previte, Michelle “A novel way to generate fractals,” *Monthly* Jan 2008, p13
- Henle, Frederick “Squaring the plane,” *Monthly* Jan 2008, p3
- Dickinson, William “The *right* right triangle on the sphere,” *Coll Math J* Jan 2008 p24
- Simioson, Andrew “Pursuit curves for the Man in the Moone,” *Coll Math J* Nov 2007, p330
- Bartnicki, Tomasz “The map-coloring game,” *Monthly* Nov 2007, p793
- Taylor, Peter “Mathematical Lens,” *Math Teach* Oct 2007, p179
- Murty, Ram “Pick’s Theorem via Minkowski’s Theorem,” *Monthly* Oct 2007, p732
- Laison, Joshua “Seeing dots: visibility of lattice points,” *Math Mag* Oct 2007, p274
- Smith, Geoff “Euler and triangle geometry,” *Math Gaz* Nov 2007, p436
- Quadling, Douglas “Further forays into n dimensions,” *Math Gaz* Nov 2007, p462
- Kolpas, Sid “Rapid prototyped teaching models for volumes of revolution and volues by cross-section in college calculus,” *Math & Comp Ed* Fall 2007, p244
- Sultan, Alan “Some interesting and thought-provoking geometric fallacies,” *Math Teach* Sep 2007 p114
- Cook, Jack “Rotation in a normed plane,” *Manthly* Aug 2007 p628
- Walker, Janet “Where have all the flowers gone?” *Math Teach* Sep 2007 p88
- Sultan, Alan “Some interesting and thought-provoking geometric fallacies,” *Math Teach* Sep 2007 p114
- Gonzalez-Velasco, Enrique “James Gregory’s calculus in the *Geometriae Pars Universalis*,” *Monthly* Aug 2007, p565
- Brooks, David “A new method of trisection,” *Math Teach* Mar 2007, p78
- Francese, Christopher “The flaw in Euler’s proof of his polyhedral formula,” *Monthly* Apr 2007, p286
- Quinn, Robert “Explore, conjecture, connect, prove: the versatility of a rich geometry problem,” *Math Teach* Aug 2007 p8
- Aravind, P.K. “The hypercubical dance,” *Math Gaz* Jul 2007, p193
- Lewis, Barry “Trigonometry and the Fibonacci numbers,” *Math Gaz* Jul 2007, p216
- Sirotic, N “Irrational numbers on the number line—where are they?” *Hist Math* Aug 2007, p477
- Maier, Peter “Attainable patterns in alien tiles,” *Monthly* Jan 2007 p1
- Özgün-Koca, Asli “Use of Archimedes’ process for approximating circle area as an introduction to limits,” *Math Teach* Apr 2007, p550
- Cairns, Grant “Brussels sprouts and cloves,” *Math Mag* Feb 2007 p46
- Ungar, Sime “The Koch curve: a geometric proof,” *Monthly* Jan 2007, p61

Linear Algebra & Abstract Algebra

- Dresden, Gregory “Three transcendental numbers from the last non-zero digits of n^n , F^n , and $n!$,” *Math Mag* Apr 2008, p96
- Wastlund, Johan “An elementary proof of the Wallis product formula for pi,” *Monthly* Dec 2007, p914
- Hollings, Christopher “Some first tantalizing steps into semigroup theory,” *Math Mag* Dec 2007, p331
- Lockhart, Jody “Determinants of matrices over the integers modulo m ,” *Math Mag* Jun 2007 p207
- Teets, Donald “The mathematics of “Go To” telescopes,” *Coll Math J* May 2007, p170
- Hetzel, Andrew “The probability that a matrix of integers is diagonalizable,” *Monthly* June 2007, p469
- Loehr, Nicholas “A direct proof that row rank equals column rank” *CollMath J* Sep 2007 p300
- Stix, Gary “Graph theory and teatime,” *Sc Amer* Mar 2007, p37
- Rice, Adrian ““Shutting up like a telescope’: Lewis Carroll’s ‘curious’ condensation method for evaluating determinants,” *Coll Math J* Mar 2007 p85
- Burroughs, Elizabeth “Encouraging pre-service mathematics teachers as mathematicians,” *Math Teach* Mar 2007, p464
- Wong, Roman “Tennis with Markov,” *Coll Math J* Jan 2007, p53
- Auckly, Dave “Solving the quartic with a pencil” *Monthly* Jan 2007, p29
- Loh, Po-Ru “Stepping to infinity along Gaussian primes,” *Monthly* Feb 2007, p142
- Cairns, Grant “Brussels sprouts and cloves,” *Math Mag* Feb 2007 p46
- Auckly, Dave “Solving the quartic with a pencil,” *Monthly* Jan 2007, p29

Analysis and Sets & Numbers

- Dresden, Gregory “Three transcendental numbers from the last non-zero digits of n^n , F^n , and $n!$,” *Math Mag* Apr 2008, p96
- Nguyen, Hieu “Rearing its ugly head: the cosmological constant and Newto’s greatest blunder,” *Monthly* May 2008, p415
- Bailey, R.A. “Sudoku, gerechte designs, resolutions, affine space, spreads, regalia and Hamming codes,” *Monthly* May 2008, p383
- Suzuki, Jeff “A brief history of impossibility,” *Math Mag* Feb 2008, p27
- Hardin, Christopher “A peculiar connection between the Axiom of Choice and predicting the future,” *Monthly* Feb 2008, p91
- Matson, John “Does infinity come in different sizes?” *Sci Amer* Jan 2008, p112
- Socha, Katherine “Conway’s napkin problem,” *Monthly* Mar 2007 p217
- Hadlock, Charles “Practicing mathematics in the publis arena: challenges and outcomes in some prominent case studies,” *Monthly* Dec 2007, p849
- Wastlund, Johan “An elementary proof of the Wallis product formula for pi,” *Monthly* Dec 2007, p914
- Baker, Matthew “Uncountable sets and an infinite real number game,” *Math Mag* Dec 2007, p377
- Simoson, Andrew “Finding spring on Planet X,” *Primus* July 2007, p228
- Khosravani, Azar “Exploring binary expansions with a classroom game,” *Math & Comp Ed* Fall 2007, p266
- Hoare, Graham “Leonhard Euler (1707-1783),” *Math Gaz* Nov 2007, p406
- Özgün-Koca, Asli “Use of Archimedes’ process for approximating circle area as an introduction to limits,” *Math Teach* Apr 2007, p550
- Christianidis, Jean “The way of Diophantus: some clarifications on Diophantus’ method of solution,” *Hist Math* Aug 2007, p289
- Sirotic, N “Irrational numbers on the number line—where are they?” *Hist Math* Aug 2007, p477

Lord, Nick “An amusing sequence of trigonometrical integrals,” *Math Gaz* Jul 2007, p281

Stix, Gary “Graph theory and teatime,” *Sc Amer* Mar 2007, p37

Burroughs, Elizabeth “Encouraging preservice mathematics teachers as mathematicians,” *Math Teach* Mar 2007, p464

Ungar, Sime “The Koch curve: a geometric proof,” *Monthly* Jan 2007, p61

History of Math

Hoare, Graham “Leonhard Euler (1707-1783),” *Math Gaz* Nov 2007, p406

Gonzalez-Velasco, Enrique “James Gregory’s calculus in the *Geometriae Pars Universalis*,” *Monthly* Aug 2007, p565

Seppala-Holtzman, D. “Ancient Egyptians & Russian peasants foretell the digital age,” *Math Teach* May 2007 p 632

Albers, Don “John Todd—Numerical Mathematics pioneer,” *Coll Math J* Jan 2007, p2

Key

Coll Math J = The College Mathematics Journal

Discover = Discover

Hist Math = Historia Mathematica

Int J Math Ed = International Journal of Mathematical Education in Science and Technology

J Comp Math = Journal of Computers in Mathematics and Science Teaching

J Research Math Ed = Journal for Research in Mathematics Education

Math & Comp Ed = Mathematics and Computer Education

Math Gaz = Mathematical Gazette

Math Horiz = Math Horizons

Math Mag = Mathematics Magazine

Math Teacher = Mathematics Teacher

Monthly = The American Mathematical Monthly

Primus = Primus

Quantum = Quantum

Sch Sci & Math = School Science and Mathematics

Sc Amer = Scientific American