

MATHEMATICS/COMPUTER SCIENCE

REFEREED PUBLICATIONS

- Belcastro, S.M.** (2004). To include more students, don't focus on contests--prepare for mathematics! Mathematics Teacher, 97(2), 84-86.
- Belcastro, S.M.** (2004). Families of dot-product snarks on orientable surfaces of low genus. American Mathematical Monthly, Problem 11074, March 2004.
- Belcastro, S.M.** (2002). The devil is in the culture: Why you should read the number devil and other musings on mathematical education and culture, with A. Howard. Math Horizons, November, 16-20+29.
- Belcastro, S.M.** (2002). A mathematical model for non-flat origami, with T.C. Hull, in Origami3: Third International Meeting of Origami, Science. Mathematics and Education, A K Peters, Ltd., 39-51.
- Joshi, H.R.** (2004). Solving a parabolic inverse problem of identification type by an optimal control methods. Houston Journal of Mathematics.
- Benjamin, A.T., Neer, J.D., **Otero, D.E.** & Sellers, J.A. (2003). A probabilistic view of certain weighted Fibonacci sums. Fibonacci Quart. 41(4), 360-364.

PRESENTATIONS AT ACADEMIC CONFERENCES

- Belcastro, S.M.** & Blue, J. (2004). Feminists critiquing science: From representation issues to Philosophy. Paper presented at the Office of Multicultural Affairs Symposium.
- Belcastro, S.M.** & Hull, T.C. (2004). Why are there 3^n cubes in the n-cube? Paper presented at the American Regions Math League, Penn State University, University Park, PA.
- Belcastro, S.M.** (2004). Why do we knit the way we do? Paper presented at the Miami University Conference: Mathematics and Symmetry, Oxford, OH.
- Flaspohler, D.C.** & Dinkheller, A.L. (2002). Connections in discrete mathematics. Paper presented at the Annual Meeting of the Ohio Council of Teachers of Mathematics, Cincinnati, OH.
- Joshi, H.** (2003). Solving a crop problem by an optimal control method. Paper presented at the Southeastern-Atlantic Regional Conference on Differential Equations. Kennesaw State University, Atlanta, GA.

- Otero, D.E.** (2004). Al-Biruni's trigonometry: one millennium later. Paper presented at the MAA Tri-Section Meeting and Midwest History of Mathematics Conference, University of Evansville, Evansville, IN.
- Otero, D.E.** (2001). On using a table of logarithms. Paper presented at AMS Eastern Section Fall Meeting, Williams College, Williamstown, MA.
- Otero, D.E.** (2001). A fifteen-minute history of logarithms. Paper presented at MAA Ohio Section Fall Meeting, Marietta College, Marietta, OH.
- Vanderbilt, A.K.** (2002). Free Tweety! Nonmonotonic logic comes of age. Paper presented at the George Washington University Summer Program for Women in Mathematics, Washington, DC.
- Vanderbilt, A.K.** (2002). Common derivations in locally determined logic programs. Paper presented at the 7th International Symposium on Artificial Intelligence and Mathematics, Ft. Lauderdale, FL.
- Vanderbilt, A.K.** (2002). Common derivations in locally determined logic programs and their computability. AMS Special Session on Computability. Presented at the Annual Joint Mathematic Meeting, San Diego, CA.
- Wagner, J.F.** (2004). Transfer: A complex knowledge system perspective. Paper presented at the American Educational Research Association, San Diego, CA.
- Izsak, A. & **Wagner, J.F.** (2003). Coordination classes as a lens for understanding the development and generalization of mathematical modeling knowledge. Paper presented at the Conference on Research in Undergraduate Mathematics Education, Scottsdale, AZ.
- Wagner, J.F.** (2003). The context sensitivity of mathematical generalizations. Paper presented at the International Group for the Psychology of Mathematics Education, Joint Meetings of PME and PMENA, Honolulu, HI.
- Wagner, J.F.** (2003). The microgenesis of mathematical generalizations: Examining competing theories of conceptual change and transfer. Paper presented at the American Educational Research Association, Chicago, IL.
- Wagner, J.F.** (2002). Constructing generalizations: An analysis of one student's progress toward a generalized understanding of the law of large numbers. Paper presented at the North American Chapter of the International Group for the Psychology of Mathematics Education, Athens, GA.

PROCEEDINGS

- Otero, D.E.** (2001). On building a table of logarithms. Proceedings of the Eighth Midwest History of Mathematics Conference. Highland Heights, KY.
- Wagner, J.F.** (2003). The context sensitivity of mathematical generalizations. In N.A. Pateman, B.J. Dougherty & J. Zilliox (Eds.), International Group for the Psychology of Mathematics Education. Proceedings of the Joint Meeting of PME and PMENA (Vol. 4, pp. 363-370). Center for Research and Development Group, University of Hawaii, Honolulu, HI.
- Wagner, J.F.** (2002). Constructing generalizations: An analysis of one student's progress toward a generalized understanding of the law of large numbers. In D.S. Mewborn, P., Sztajn, D. Y. White, H.G. Wiegel, R.L. Bryant & K. Nooney (Eds.), Proceedings of the North American Chapter of the International Group for the Psychology of Mathematics Education (pp. 1335-1338). ERIC Clearinghouse for Science, Mathematics and Environmental Education. Columbus, OH.

OTHER

- Belcastro, S.M.** (2004). Using class time--how and why I developed my classroom style. Panel participant at PProject NExT (orange dots), Providence, Providence, RI.
- Belcastro, S.M.** & Hull, T.C. (2004). Why are there 3^n cubes in the n-cube? Presented to BC Calculus class, Wyoming High School, Cincinnati, OH.
- Lewandowski, G.**, Gray, S., Shende, A., Edwards, W. (2004). Improving programming skills by developing program comprehension. Panel at CCSC East.
- Otero, D.E.** (2004). ORESME Reading Group. Moderated session on George Polya, Xavier University, Cincinnati, OH.
- Otero, D.E.** (2004). Al-Biruni's On Shadows: a glimpse at Islamic mathematics. Invited address, Wright State University, Lake Campus, Celina, OH.
- Otero, D.E.** (2004). Al-Biruni's contributions to mathematics. Invited address, Ohio State University, Columbus, OH.
- Otero, D.E.** (2004). ORESME Reading Group. Moderated session on P.A. MacMahon, Northern Kentucky University, Highland Heights, KY.

Vanderbilt, A.K. (2001). Functions for nonmonotonic rule systems. Junior Faculty Research Seminar, Xavier University, Cincinnati, OH.

Wagner, J.F. (2004). How do we know that they know? The problem of attributing knowledge to students. Invited presentation given at the Pi Mu Epsilon induction ceremony, Department of Mathematics and Computer Science, Xavier University, Cincinnati, OH.