

MATHEMATICS/COMPUTER SCIENCE

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BOOK CONTRIBUTIONS

- diSessa, A. A., & **Wagner, J. F.** (2005). What coordination has to say about transfer. In J. P. Mestre (Ed.), *Transfer of learning from a modern multidisciplinary perspective* (pp. 121-154). Greenwich, CT: Information Age Publishing.

PROCEEDINGS

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PRESENTATIONS AT ACADEMIC CONFERENCES

Belcastro, S. M. (2004). *Why do we knit the way we do?* Paper presented at the Miami University Conference: Mathematics and Symmetry, Oxford, OH.

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). *Using class time--how and why I developed my classroom style.* Panel participant in Project NEXt (New Experiences in Teaching), Providence, RI.

Goldweber, M., Bergin, J., Lister, R., & McNally, M. (2006). A comparison of different approaches to the introductory programming course. Panel presentation delivered at the 8th Australasian Computing Education Conference (ACE), Cairns, Queensland.

Goldweber, M., Fagin, B., & Klassner, F. (2006). Do LEGO Mindstorms Robots have a future in CS education? Panel presentation delivered at the 37th SIGCSE Technical Symposium on Computer Science Education, Houston, TX.

Goldweber, M., Davoli, R., & Gardenghi, L. (2006). UM view: View-OS implemented as a system call virtual machine. Poster presented at the 7th USENIX Symposium on Operating Systems Design and Implementation (OSDI), Seattle, WA.

Goldweber, M., & Davoli, R. (2006). View-OS: A process with a view. Poster presented at the EuroSys 2006, Leuven, Belgium.

Bergin, J., Daspersen, M. E., Kolling, M., & **Goldweber, M.** (2005). Teaching polymorphism early. Panel presentation delivered at the 10th Annual Conference on Innovation and Technology in Computer Science Education (ITiCSE), Caparica, Portugal.

Goldweber, M., Clark, M., Fincher, S., & Pears, A. (2004). The relationship between CS education research and the SIGCSE community. Panel presentation delivered at the 9th Annual Conference on Innovation and Technology in Computer Science Education (ITiCSE), Leeds, UK.

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- 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.
- Guo, H.** (2006). *Balancing cultural differences in teaching statistics*. Paper presented at the Joint Statistical Meetings, Seattle, WA.
- Guo, H.** (2006). *Statistics: A difficult subject for teaching and learning*. Paper presented at Ohio Project Next, Muskingum College, OH.
- Joshi, H. R.** (2006). *Optimal harvesting during an invasion of a sublethal plant pathogen*. Paper presented at the SIAM Annual Meeting, Boston, MA.
- Joshi, H. R.** (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.
- Chen, T., **Lewandowski, G.**, McCartney, R., Sanders, K., & Simon, B. (2006). *What do beginning students know and what can they do?* Poster presented at the 11th Annual SIGCSE Conference on Innovation and Technology in Computer Science Education, Bologna, Italy.
- Lewandowski, G.**, Gray, S., Shende, A., & Edwards, W. (2004). *Improving programming skills by developing program comprehension*. Panel participant at the Consortium for Computing Sciences in Colleges, East, Baltimore, MD.
- Otero, D. E.** (2006). *Redesigning a mathematics education curriculum*. Paper presented the Mathematical Association of America Fall Section Meeting, Muskingum College, New Concord, OH.
- Otero, D. E.** (2004). *Al-Biruni's "On Shadows": A glimpse at Islamic mathematics*. Invited address presented at Wright State University, Lake Campus, Celina, OH.
- Otero, D. E.** (2004). *Al-Biruni's contributions to mathematics*. Invited address presented at Ohio State University, Columbus, OH.
- 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.

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- Rossa, B.,** Wagner, J. F., Rasmussen, C., & Allen, K. (2005). *Developing and implementing innovative undergraduate mathematics curricula: Improving collaboration between mathematicians and mathematics educators*. Paper presented at the Conference on Research in Undergraduate Mathematics Education, Phoenix, AZ.
- 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*. Paper presented at the Annual Joint Mathematics Meeting, AMS Special Session on Computability, San Diego, CA.
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- Wagner, J. F.** (2006). *Transferring a theory to a new context*. Paper presented at the International Conference of the Learning Sciences, Indiana University, Bloomington, IN.
- Wagner, J. F.** (2005). *Identifying the knowledge students really use: Some methodological concerns*. Paper presented at the American Educational Research Association Meeting, Montreal, Quebec, Canada.
- Rossa, B., **Wagner, J. F.,** Rasmussen, C., & Allen, K. (2005). *Developing and implementing innovative undergraduate mathematics curricula: Improving collaboration between mathematicians and mathematics educators*. Paper presented at the Conference on Research in Undergraduate Mathematics Education, Phoenix, AZ.

- Wagner, J. F.** (2004). *Transfer: A complex knowledge system perspective*. Paper presented at the American Educational Research Association, San Diego, CA.
- 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.
- 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 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.

OTHER

- Belcastro, S. M., & Hull, T. C.** (2004). *Why are there 3^n cubes in the n -cube?* Lecture presented to the BC Calculus class, Wyoming High School, Cincinnati, OH.
- Belcastro, S. M., & Blue, J.** (2004). *Feminists critiquing science: From representation issues to philosophy*. Paper presented at the Office of Multicultural Affairs Symposium.
- Lewandowski, G.** (2006). *Commonsense computing: What do they know before we teach?* Presentation delivered at the Math & Computer Science Department Seminar, Xavier University, Cincinnati, OH.
- Otero, D. E.** (2006). *Cambridge figures: A brief history of mathematics at the University of Cambridge*. Presentation delivered at the Pi Mu Epsilon Banquet, Xavier University, Cincinnati, OH.
- Otero, D. E.** (2006). *Glue minimization algorithms in reconstructing ancient ceramics, or What I did on my spring sabbatical*. Seminar presented to the Math & Computer Science Department, Xavier University, Cincinnati, OH.
- Otero, D. E.** (2004). *George Polya's "Mathematics and Plausible Reasoning."* Readings presented at the ORESME (Ohio River Early Sources in Mathematical Exposition) Reading Group, Xavier University, Cincinnati, OH.

- Otero, D. E.** (2004). *P. A. MacMahon's the design of repeating patterns and on the thirty cubes that can be constructed with six differently coloured squares*. Readings presented at the ORESME (Ohio River Early Sources in Mathematical Exposition) Reading Group, Northern Kentucky University, Highland Heights, KY.
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