

PUBLICATIONS & PRESENTATIONS



Refereed Publications

- Steiff, M. & Ryan, S. (2016). Designing the Connected Chemistry Curriculum. In S. Svihla & R. Reeve (Eds.), *Design as Scholarship: Case Studies from the Learning Sciences*. (100-114). Routledge: New York, NY.
- Stieff, M., & Ryan, S. (2013). Explanatory models for the research & development of chemistry visualizations. In J. Suits & M.J. Sanger (Eds.), *Pedagogic Roles of Animations and Simulations in Chemistry Courses* 9 pp.15-41). Washington D.C.: American Chemical Society.
- Ryan, S., & Wink, D.J. (2012). JCE Classroom Activity #112: Guessing the number of candies in the jar- who needs guessing? *Journal of Chemical Education*, 89(9), 1171-1173.
- Wink, D.J., Daubenmire, P.L., Brennan, S.K., & Cunningham*, S.A. (2008). Bringing social and personal perspectives into standards-based chemistry instruction in an urban school district. In S.L. Bretz (Ed.), *Chemistry and the National Science Education Standards* (69-78). American Chemical Society: Washington, D.C.

Other Publications

- Stieff, M., Nighelli, T., Yip, J., Ryan, S., & Berry, A. (2012). *The Connected Chemistry Curriculum* (Vol. 1-9). Chicago, IL: University of Illinois at Chicago.
- Wink, D.J., Brennan, S.K., Cunningham*, S.A., Shippy, S.A., Kassner, R.J. (2007). *Course Planning Guide and Model Lessons for CPS 10th Grade Chemistry*. Chicago, IL: University of Illinois at Chicago.

Peer Reviewed Published Proceedings (presenters bolded)

- Ryan, S., **Yip, J.**, Stieff, M., & Druin, A. (2013). *Cooperative inquiry as a community of practice*. In *Proceedings of the Tenth Computer Supported Collaborative Learning (CSCL 2013)*. Madison, WI.
- **Ryan, S.A.C.**, Wink, D.J., Goldman, S.R., & Pellegrino, J. (2010). Student ratio use and understanding of molarity concepts within solutions chemistry. In I. Maciejowska & P. Ciesla (Eds.), *10th European Conference on Research In Chemistry Education* (pp 239-240). Krakow, Poland: Pedagogical University of Krakow.
- **Ryan, S. A. C.**, Wink, D. J., Goldman, S. R., & Pellegrino, J. (2010). Student interpretations of number in solutions chemistry. In M. Nodzyska (Ed.), *4th International Conference Research in Didactics of the Sciences* (pp 99-100). Krakow, Poland: Pedagogical University of Krakow.
- **Ryan, S.A.C.**, Wink, D.J., Goldman, S.R., & Pellegrino, J. (2010). Student understandings of solutions. In K. Gomez, L. Lyons, & J. Radinsky (Eds.) *Learning in the Disciplines: Proceedings of the 9th International Conference of the Learning Sciences (ICLS 2010) - Volume 2, Short Papers, Symposia, and Selected Abstracts* (pp. 460-461). Mahwah, NJ: Erlbaum.
- **Ryan, S.A.C.**, & Wink, D.J. (2010). Student conceptions of number in solutions chemistry. In Gomez, K., Lyons, L., & Radinsky, J. (Eds.) *Learning in the Disciplines: Proceedings of the 9th International Conference of the Learning Sciences (ICLS 2010) - Volume 2, Short Papers, Symposia, and Selected Abstracts* (pp. 423-424). Mahwah, NJ: Erlbaum.

Oral Presentations (presenters bolded)

- **Ryan, S.A.C.**, & Stieff, M. (2015). Efficacy of The Connected Chemistry Curriculum. *249th American Chemical Society National Meeting*. Denver, CO.
- **Ryan, S.A.C.** (2014). Manipulatives as a tool for understanding what is in the black box. *23rd Biennial Conference on Chemical Education*: Allendale, MI.
- **Ryan, S.A.C.**, & Anthony, S. (2014). Grounded theory as an analysis technique to capture student conceptions in chemistry. *23rd Biennial Conference on Chemical Education*: Allendale, MI.
- **Ryan, S.A.C.**, Cole, R. & Bauer C. (2014). ANAPOGIL Project: A qualitative analysis of student problem solving strategies. *247th American Chemical Society National Meeting*: Dallas, TX.
- **Ryan, S.A.C.**, & Wink, D.J. (2014). Proportional reasoning strategies in mathematics and chemistry. *247th American Chemical Society National Meeting*: Dallas, TX.
- **Ryan, S.A.C.**, & Wink, D.J. (2013). Student use of proportional reasoning in domain-general and domain-specific concentration tasks. *245th American Chemical Society National Meeting*: New Orleans, LA.
- **Ryan, S.A.C.**, & Stieff, M. (2013). Using multiple modalities simultaneously as an assessment tool for learning from visualizations. *245th American Chemical Society National Meeting*: New Orleans, LA.

- **Ryan, S.A.C.**, & Stieff, M. (2012). Student drawings as an assessment tool for learning from visualizations. *22nd Biennial Conference on Chemical Education*: State College, PA .
- **Ryan, S.A.C.** (2012). Student ratio use and understanding of molarity concepts within solutions chemistry. *22nd Biennial Conference on Chemical Education*: State College, PA.
- **Ryan, S.A.C.**, & Wink, D.J. (2010). Student interpretations of number in solutions chemistry. *21st Biennial Conference on Chemical Education*: Denton, TX.
- **Ryan, S.A.C.**, Wink, D.J., & Marchlewicz, S. (2010) After School Matters science37 program in Chicago Public Schools. 21st Biennial Conference on Chemical Education: Denton, TX.
- **Cunningham*, S.A.**, Wink, D.J., Brennan, S.K., & Goldman, S.R. (2008) Student understandings of solutions. *20th Biennial Conference on Chemical Education*: Bloomington, IN.
- Wink, D.J., Daubenmire, P.L., Brennan, S.K., & Cunningham*, S.A. (2008). Bringing social and personal perspectives into standards-based chemistry instruction in an urban school district. 20th Biennial Conference on Chemical Education: Bloomington, IN.
- **Cunningham*, S.A.**, Wink, D.J., Brennan, S.K., & Goldman, S.R. (2008). Student understandings of solutions. *235th American Chemical Society National Meeting*: New Orleans, LA.
- **Cunningham*, S.A.**, Wink, D.J., Brennan, S.K., Bertenthal, M., & Goldman, S.R. (2007). Development of a tutorial instruction method to study student understanding of solutions. *234th American Chemical Society National Meeting*: Boston, MA.
- **Dianovsky, M., Cunningham*, S.A.**, & Wink, D.J. (2007). Using CASPIE as an introduction to research for pre-college students. *233rd American Chemical Society National Meeting*: Chicago, IL.
- Wink, D.J., **Brennan, S.K., Cunningham*, S.A.**, Daubenmire, P.L., Shippy, S.A., & Kassner, R.J. (2007). Incorporating chemistry in the community in a comprehensive curriculum and teacher professional development program. *233rd American Chemical Society National Meeting*: Chicago, IL.

Invited Blog Posts

- What's Behind Door Number Two? Other Chemistry Education Research Career Options – Part 1, <http://bit.ly/WhatsBehindDoorNumberTwo>
- What's Behind Door Number Two? Other Chemistry Education Research Career Options – Part 2, <http://bit.ly/WhatsBehindDoorNumberTwoPart2>

Invited Speaker Presentations

- **Ryan, S.A.C.** (2013). What's behind door number two?: Other chemistry education research career opportunities. *245th American Chemical Society National Meeting*: New Orleans, LA.
- **Ryan, S.A.C.** (2012). Using multiple modalities simultaneously as an assessment tool for learning from visualizations. *2012-2013 Learning Sciences Research Institute Speaker Series*: Chicago, Illinois.
- **Ryan, S.A.C.** (2012). UIC's amazing women in STEM panelist. *10th Anniversary Women in Science and Engineering (WISE) Dinner*: Chicago, IL.
- **Ryan, S.** (2011). Lessons Learned. *Learning Sciences Student Association Meeting*: Chicago IL.

Selected Poster Presentations (presenters bolded)

- **Ryan, S.A.C.**, & Wink, D.J. (2013). Proportional reasoning solving strategies in mathematics and chemistry. *Gordon Research Conference on Chemistry Education Research and Practice*: Newport, RI.
- **Ryan, S.A.C.**, Stieff, M., Nighelli, T., & Yip, J. (2011). Using participatory design to develop visualizations for learning. *Gordon Research Conference on Visualization in Science and Education*: Smithfield, RI.
- **Ryan, S.A.C.**, & Wink, D.J. (2011). Student ratio use and understanding of molarity concepts within solutions chemistry. *Gordon Research Conference on Chemistry Education Research and Practice*: Davidson, NC.
- **Ryan, S.A.C.**, & Wink, D.J. (2011). Student ratio use and understanding of molarity concepts within solutions chemistry. *2nd Chemical Education Research Graduate Student Conference*: Oxford, OH.
- **Ryan, S.A.C.**, & Wink, D.J. (2010). Student ratio use and understanding of molarity concepts within solutions chemistry. *Transforming Research in Undergraduate STEM Education*: Orono, ME.
- **Cunningham*, S.A.**, Wink, D.J., Goldman, S.R., Vassileva, M., & Pellegrino, J. (2009). Student understandings of solutions. *Gordon Research Conference on Visualization in Science and Education*: Oxford, United Kingdom.
- **Cunningham*, S.A.**, Wink, D.J., Brennan, S.K., Goldman, S.R., Marchlewicz, S., & Vassileva, M. (2009). Student understandings of solutions. *Gordon Research Conference on Chemistry Education Research and Practice*: Waterville, ME.
- **Cunningham*, S.A.**, Wink, D.J., Brennan, S.K., Goldman, S.R., & Vassileva, M. (2009). Student understandings of solutions. *Chemical Education Research Graduate Student Conference*: Oxford, OH.
- **Cunningham*, S.A.**, Dianovsky, M., Wink, D.J., & Gomez, K. (2008). Motivation and self-efficacy of high school chemistry students. *235th American Chemical Society National Meeting*: New Orleans, LA.
- **Cunningham*, S.**, Wink, D.J., Brennan, S.K., Bertenthal, M., & Goldman, S.R. (2007). Studies of student understandings of solution. *Gordon Research Conference on Chemistry Education Research and Practice*: Lewiston, ME.
- **Cunningham*, S.A.**, Brennan, S.K., Bertenthal, M., & Goldman, S.R. (2007). Studies of student understandings of solution. *233rd American Chemical Society National Meeting*: Chicago, IL.
- **Cunningham*, S.A.**, & Shippy, S.A. (2007). Fast MEKC analysis of amino acids with on-capillary LIF detection. *The Pittsburgh Conference on Analytical Chemistry and Applied Spectroscopy*: Chicago, IL.
- **Cunningham*, S.**, Fosco, T., & Schmeling, M. (2004). Characterization of the Chicago land-lake breeze 2003. *227th American Chemical Society National Meeting*: Anaheim, CA.

* indicates maiden name



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