

Darin Craig Schroeder

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Threads: dcschr2
X: csstem

Strengths: *Strategic, Analytical, Futuristic, Learner, Activator*

Educational Experience and Certifications

University of Kentucky	EdS , Educational Leadership, 2012 Professional Certificate for Instructional Leadership, All Grades, Level II
University of Kentucky	PhD , Education Sciences, 2007
University of Kentucky	MS , Mathematics Education, 2004 Rank I Certification - Mathematics & Physics, Grades 5-12
Centre College	BS , Mathematics & Physics, 2002 Professional Certificate for Teaching Mathematics & Physics, Grades 5-12

Professional Work Experience

<i>2024 – Present</i>	Executive Director of Applied Learning , Kansas State University, <i>Staley School of Leadership</i>
<i>2024</i>	Regional Innovation Specialist , Kentucky Department of Education, <i>Division of Innovation</i>
<i>2023 – Present</i>	Adjunct Professor , Bellarmine University, <i>Annsley Frazier Thornton School of Education</i>
<i>2020 – 2024</i>	STEM Director , Fayette County Public Schools, <i>Rise STEM Academy for Girls</i>
<i>2008 – 2020</i>	STEM Teacher , Fayette County Public Schools
<i>2010 - Present</i>	University of Kentucky STEM Camp Director , University of Kentucky
<i>2013 – 2020</i>	Director of Operations , Commonwealth Soccer Club
<i>2008 – 2020</i>	Cooperating Teacher , University of Kentucky
<i>2011 – 2014</i>	See Blue Mathematics Clinic Teacher Liaison , Beaumont Middle School
<i>2013 – 2014</i>	Teacher , Common Assignment Study
<i>Fall 2011</i>	Middle School Transition/ Bridge Program Work Team , Kentucky Department of Education
<i>2009 – 2010</i>	Secondary Mathematics Formative Assessment Project Team , Kentucky Department of Education
<i>2008 – 2011</i>	Mathematics Assessment Team , Kentucky Department of Education
<i>Summer 2008</i>	Mathematics Textbook Reviewer , Kentucky Department of Education
<i>2007 – 2008</i>	Secondary Mathematics Teacher , Jessamine County Public Schools
<i>2006 – 2008</i>	Research Consultant , Booker T. Washington Elementary Academy
<i>2003 – 2007</i>	Graduate Teaching & Research Assistant in Curriculum & Instruction , University of Kentucky
<i>2002 – 2003</i>	Secondary Mathematics Teacher , Lincoln County High School

Professional Development Topics Designed and Facilitated

Leveraging 21 st Century Skills	Geogebra – Integration	Statistical Processes
Self-Regulated Learning	Creating Assessment Items	CCSSM Standards
Digital Literacies	Mathematics Knowledge for Teaching	Sketchup
Next Gen. Science Standards	Professional Learning Communities	Technology in Mathematics
Classroom Management	Community Involvement	Instructional Media
3-D Modeling	Curriculum Bridging	iPad Applications
Integrated STEM Lessons	Project Based Instruction	3-D Printing
Robotics (EV3 & Ozobots)	Formative	Growth Checks
Community Partnerships		

Courses Taught

High School Courses: Algebra I, Algebra II, Data and Measurement, Geometry (General and Advanced), AP Physics 1, Advanced Physics, Robotics and Design Systems, Integrated Science (General and Advanced), Intro to Physics with Earth Space Science

Middle School Courses: 7th grade Integrated STEM – Algebra-based; 7th grade Integrated STEM – Geometry-based; Advanced High School Geometry, 8th Grade Science, Advanced High School Algebra I, Pre-Algebra, Math Enrichment, 7th Grade Science, Algebra I Part I

Master's Courses:

EDUG 684: Professional Leadership in STEAM. Bellarmine University, Louisville, KY, Summer 2023-24, 3 credit hours

EDC 746: Subject Area Instruction in the Secondary School: Student Teaching in Mathematics. University of Kentucky, Lexington, KY, Spring 2004 – Spring 2007, 9 credit hours

EDC 631: Mathematics Pedagogy in the Secondary School. University of Kentucky, Lexington, KY, Fall 2006, 3 credit hours

Undergraduate Courses:

EDC 421: Survey of Secondary Mathematics Curriculum. University of Kentucky, Lexington, KY, Spring 2009, 3 credit hours

EDC 317: Introduction to Instructional Media. University of Kentucky, Lexington, KY, Fall 2003 – Fall 2005, 1 credit hour

EDC 345: Middle School Mathematics Methods. University of Kentucky, Lexington, KY, Fall 2003, 3 credit hours

EDC 337: Teaching Mathematics in the Elementary Schools. University of Kentucky, Lexington, KY, Fall 2004

Graduate Courses:

EDUG 684: Professional Leadership in STEAM. Bellarmine University, Louisville, KY, Summer 2023.

Extracurricular Experiences

<i>2024</i>	Robotics Club, Rise STEM Academy for Girls , Lexington, KY
<i>2023 - 2024</i>	Running Club Coach, Rise STEM Academy for Girls , Lexington, KY
<i>2017 – 2020</i>	Robotics Team Coach, Henry Clay High School , Lexington, KY
<i>2009 – 2020</i>	Boys & Girls Soccer Coach, Commonwealth Soccer Club , Lexington, KY
<i>2012 – 2014</i>	Assistant Girls Soccer Coach, Tates Creek High School , Lexington, KY
<i>2006 – 2008</i>	Assistant Boys Soccer Coach, Tates Creek High School , Lexington, KY
<i>2004 – 2011</i>	Baseball Umpire, Kentucky High School Athletic Association , Lexington, KY
<i>Fall 2006</i>	Head Boys Soccer Coach, KHSSCA East First and Second All-State Team , Lexington, KY
<i>2003 – 2005</i>	Head Boys Soccer Coach, Pulaski County High School , Somerset, KY
<i>2002 – 2003</i>	Assistant Boys Soccer Coach, Lincoln County High School , Stanford, KY
<i>2002 – 2004</i>	Assistant Baseball Coach, Lincoln County High School , Stanford, KY

Honors and Awards

- Julie and Roger Davis Executive Director of Applied Learning
- National Technology Leadership Initiative Award Session, 2024
- SSMA Connections Award for Exemplary Teaching, 2023
- Stilwell Meritorious Service Award, 2022
- National Institute for School Leadership, 2022-23
- See Blue STEM Camp recognized as a Top 5 Model for Broadening Participation in STEM by National Science Foundation, November 2015.
- Outstanding STEM Alumni, University of Kentucky, 2014
- Aspiring Leaders Program II, Fayette County Public Schools, 2012-2013
- Aspiring Leaders Program, Fayette County Public Schools, 2011-2012
- NSCAA High School Team Academic Award, Pulaski County High School, 2005
- Order of Omega Academic Scholarship, \$500, Centre College, 2002
- SCAC Academic Honor Roll, Centre College Baseball Team, 1999, 2000
- Brown Honor Scholarship, Centre College, 1998-2002

Committees & Other Involvement

SSMA Board of Directors	Literacy Design Collaborative	SSMA Finance Committee
KCTM Vice President	FCPS Aspiring Leaders Program	UK See Blue Math Clinic Liaison
UK Math Program Faculty	Family Math Night Coordinator	Technology Committee
Team Leader	C & I Committee	FCPS Math Leadership Network
Kappa Delta Pi Honor Society	UK MIC Advisory Committee	Equity Committee Chair
FCPS District Science Fair	FCPS District Job Fair	Title I Math Curriculum Team
FCPS Certified Appeals	Professional Development Chair	MTEP Transformation Committee
Common Assignment Study	Physics PLC Lead	Student Technology Coordinator

Publications

Peer Reviewed Publications:

- Cook, K. L., Ivy, J., Maiorca, C., Tripp, O., Burton, M., Jackson, C., Bush, S. B., Mohr-Schroeder, M., Edelen, D., **Schroeder, D.C.**, & Roberts, T. (in press - Sept 2024). STEM Rocks Research Collective: Building and Sustaining a Collaborative, Equity-Focused Scholarly Community. *Education Sciences*, 14(9), 947. <https://doi.org/10.3390/educsci14090947>
- Edelen, D., Cook, K. L., Tripp, O. T., Jackson, C., Bush, S., Mohr-Schroeder, M., **Schroeder, D. C.**, Roberts, T., Maiorca, C., Ivy, J., Burton, M., & Perrin, A. (March, 2024). "No, this is not my Boyfriend's Computer:" A research brief elevating the voices of youth in STEM education research leveraging photo elicitation. *Journal for STEM Education Research*.
<https://link.springer.com/article/10.1007/s41979-024-00118-z>
- Bush, S., Edelen, D., Roberts, O. T., Maiorca, C., Ivy, J. T., Cook, K. L., Tripp, O. L., Burton, M., Alameh, S., Jackson, C., Mohr-Schroeder, M. J., **Schroeder, D. C.**, McCurdy, R. P., & Cox, R. (2022). Humanistic STE(A)M Instruction through Empathy: Leveraging Design Thinking to Improve Society. *Pedagogies: An International Journal*. <https://doi.org/10.1080/1554480X.2022.2147937>
- Cook, K., Alameh, S., Tripp, L. O., Maiorca, C., **Schroeder, D. C.**, & Mohr-Schroeder, M. J. (2021). Reimagining the five practices for effective and equitable discourse: An example from a virtual STEM experience. *Connected Science Learning*, 3(3).
<https://www.nsta.org/connected-science-learning/connected-science-learning-may-june-2021/reimagining-5-practices>
- Mohr-Schroeder, M. J., Jackson, C., **Schroeder, D. C.**, & Wilhelm, J. (2019). Developing a STEM Education teacher preparation program to help increase STEM Literacy amongst preservice teachers. In P. Jenlink (Ed.), *STEM teaching and Common Core Standards: An interdisciplinary approach*. Lanham, Maryland: Rowman & Littlefield.
<https://rowman.com/ISBN/9781475822762/The-Next-Generation-of-STEM-Teachers-An-Interdisciplinary-Approach-to-Meet-the-Needs-of-the-Future>
- Roberts, O. T., Jackson, C., Mohr-Schroeder, M. J., Bush, S., Maiorca, C., Cavalcanti, M., **Schroeder, D. C.**, Delaney, A., Putman, L., & Cremeans, C. (2018). Students' perceptions of STEM learning after participating in a summer informal learning experience. *International Journal of STEM Education*. May 2018. <https://stemeducationjournal.springeropen.com/articles/10.1186/s40594-018-0133-4>
- Mohr-Schroeder, M. J., Jackson, C., Cavalcanti, M., Jong, C., **Schroeder, D. C.**, & Speler, L. (2017). Parents' attitudes toward mathematics and their influence on their students' attitudes towards mathematics: A quantitative study. *School Science and Mathematics*, 117(5), 214-222. <https://doi.org/10.1111/ssm.12225>
- Jackson, C., Cavalcanti, M., Mohr-Schroeder, M., & **Schroeder, D. C.** (2015). Bolstering teachers STEM literacy via informal learning experiences. In M. J. Mohr-Schroeder, & J. Thomas (Eds.), *Proceedings of the 114th Annual Convention of the School Science and Mathematics Association*. Oklahoma City,

OK: SSMA.

https://www.researchgate.net/publication/302945404_Bolstering_teachers_STEM_literacy_via_informal_learning_experiences

Schroeder, D. C., Lee, C. W., & Mohr-Schroeder, M. J. (2015). Using spatial reasoning for creative design: Merging engineering and mathematical practices. In D. Harrison (Ed.), *Handbook of Research on Digital Media and Creative Technologies*, pp. 306 – 321). IGI Global.
<https://doi.org/10.4018/978-1-4666-8205-4.ch014>

Mohr-Schroeder, M. J., Jackson, C., Miller, M., Walcott, B., Little, D. L., Speler, L., Schooler, W., & **Schroeder, D. C.** (2014). Developing middle school students' interests in STEM via summer learning experiences: See Blue STEM Camp. *School Science and Mathematics*, 114(6), 291-301.
<https://doi.org/10.1111/ssm.12079>

Schroeder, D. C., & Lee, C. W. (2013). Integrating digital technologies for spatial reasoning: Using Google Sketchup to model the real world. In D. Polly (Ed.), *Common core mathematics standards and implementing digital technologies*. IGI Global.
<https://www.igi-global.com/book/common-core-mathematics-standards-implementing/73668>

External Funding

Current Funding:

Grants Completed:

National Science Foundation – Noyce Track 1. **UK Noyce STEM PLUS: Producing Leaders for Urban/rUral Schools. Role: K12 Teacher Liaison.** Primary Investigator: Margaret Mohr-Schroeder, University of Kentucky. Total Award Amount: \$1,200,000. March 2018 – March 2023.

National Science Foundation (EPSCoR Track 3). **Utilizing STEM Camps and STEM Clubs to increase interest in STEM fields among females and students of color. Role: Co-PI.** Primary Investigator, Margaret Mohr-Schroeder, Dept. of STEM Education, University of Kentucky. Total Award Amount: \$749,999. Sept 2013 – August 2019. **Recognized as one of the top 5 NSF national models for broadening participation at the 2014 National EPSCoR Conference, Portsmouth, NH.**

National Science Foundation (Robert Noyce – Phase II). **UK-NOYCE: New Opportunities Yielding Classroom Excellence – Phase II.** Total amount \$800,000. **Role: K-12 Partner.** Primary Investigator, Margaret Mohr-Schroeder, Department of STEM Education, University of Kentucky. September 2012 – August 2017.

National Science Foundation (DRK-12). **Geometry Assessments for Secondary Teachers (GAST).** Award Amount \$3,153,856 total. **Role: Teacher Partner - Assessment Item Developer and Teacher Observer.** Primary Investigator, Dr. Bill Bush, University of Louisville with partners University of Kentucky and Florida State University. January 2010 – September 2014.

Kentucky Center for Mathematics. **See Blue Mathematics Clinic.** Award Amount: \$50,000. **Role: Co-PI.** Primary Investigator, Margaret Mohr-Schroeder, Department of STEM Education, University of Kentucky. Partnership with University of Kentucky/P20 STEM Education Innovation Lab. July 2012 – August 2013

Kentucky Council for Teachers of Mathematics. **Writing Apps for the Mathematics Classroom.** Award Amount: \$1,000. **Role: Primary Investigator.** July 2011 – July 2012

National Science Foundation, National Girls Collaborative Project (NGCP). **Increasing female participation in the STEM Camp.** Award Amount \$1,000. **Role: Primary Investigator.** Partnership with the University of Kentucky. April 2011 – March 2012.

Kentucky Department of Education. **Secondary Mathematics Formative Assessment Project.** **Role: Geometry team member.** Primary Investigator: Bill Bush, University of Louisville. 2009 – 2010.

National Science Foundation (MSP). **Appalachian Mathematics and Science Partnership (AMSP).** \$22,000,000 total funding. **Role: Consultant.** Primary Investigator: Paul Eakin, Dept. of Mathematics, University of Kentucky. Spring 2005.

Not Funded:

National Science Foundation – AISL. **Collaborative Research: Broadening Participation in STEM Education via STEM Camps.** **Role: Co-PI.** Primary Investigator: Margaret Mohr-Schroeder, University of Kentucky. Collaborative with Iowa State University, University of Central Florida, California State University – Long Beach, and Bowling Green State University. Submitted November 2017. \$3,000,000

Best Buy Children’s Foundation (Community Partnership Grants). **See Blue STEM Camp & Robotics Club Initiative.** **Role: PI.** Total Award Amount: \$8590. Submitted July 2013.

Time Warner Cable. **Increasing Middle Level Students’ Interest in STEM Fields via STEM Camps and STEM Club.** **Role: co-PI.** Total Award Amount: \$81,059. Submitted August 2013.

National Science Foundation (Advancing Informal STEM Learning). **Incorporating STEM in Informal Learning Environments.** Total: \$1,847,591 **Role: co-PI.** Submitted January 2013. PI – Christa Jackson, Dept of STEM Education, University of Kentucky.

Presentations

National:

Schroeder, D. C., and Maiorca, C. (2024, November). Is this legal? How to leverage AI for more efficient and effective instruction. Association of Mathematics Teacher Educators Annual Conference. Knoxville, TN.

Maiorca, C., Burton, M., Ivy, J., Roberts, T., Jackson, C., Bush, S., **Schroeder, D. C.**, & Mohr-Schroeder, M. (2024, February). Developing math lessons and assessments with chatbots for learning in teacher education: Innovation and challenges. Association of Mathematics Teacher Educators Annual Conference. Orlando, FL. [National Technology Leadership Initiative Award Session]

Schroeder, D. C., Mohr-Schroeder, M. J., Jackson, C., Edelen, D., Roberts, T., & Perrin, A. (2023, October). Transdisciplinary education: How to support a transdisciplinary approach to teacher education. Presentation given at the School Science and Mathematics Association Annual Convention. Colorado Springs, CO.

Schroeder, D. C., Bush, S. B., & Maiorca, C. (2023, October). Teacher dispositions to support underrepresented scholars in STEM. Presentation given at the School Science and Mathematics Association Annual Convention. Colorado Springs, CO.

Schroeder, D. C., Burton, M. (2023, October). Teacher tools: Data analysis skills needed for the next generation of STEM teachers. Presentation given at the School Science and Mathematics Association Annual Convention. Colorado Springs, CO.

Edelen, D., **Schroeder, D. C.**, Roberts, T., Maiorca, C., Ivy, J. T., Cook, K. L., Tripp, L. O., Burton, M., Alameh, S., Jackson, C., Bush, S. B., & Mohr-Schroeder, M. J. (2022, October). Belonging, becoming, and stem identity development: A photo elicitation investigation. Presentation given at the School Science and Mathematics Association Annual Convention. Missoula, MT.

Bush, S. B., +Edelen, D., Roberts, T., Maiorca, C., Ivy, J. T., Cook, K. L., Tripp, L. O. Burton, M., Alameh, S., Jackson, C., Mohr-Schroeder, M. J., **Schroeder, D. C.**, +McCurdy, R. P., & Cox Jr., R. (2021, October). The role of empathy in integrated STE(A)M instruction. Presentation given at the School Science and Mathematics Association Annual Convention. Virtual.

Mohr-Schroeder, M. J., **Schroeder, D. C.**, Waters, T., Hazel, B., & Leroy, K. (2018, July). Bolstering preservice teachers' STEM literacy via a summer robotics learning experience. Workshop presented at the annual meeting of the NSF PI Noyce Summit, Washington, DC.

Mohr-Schroeder, M. J., & **Schroeder, D. C.** (2017, November). *Implementing Ozobots into your Classroom and Professional Development*. Workshop presented at the annual convention of the School Science and Mathematics Association, Lexington, KY.

Mohr-Schroeder, M. J., Jackson, C. D., **Schroeder, D. C.**, & Thomas, J. A. (2017, April). *Connecting the "M" in STEM*. **Invited** gallery workshop presented at the annual meeting of the National Council of Teachers of Mathematics, San Antonio, TX.

Schroeder, D. C., Jackson, C., Mohr-Schroeder, M., & Calvacanti, M. (2016, October). *Motivating and inspiring students' interest in STEM*. Paper presented at the annual convention of the School Science and Mathematics Convention, Phoenix, AZ.

- Mohr-Schroeder, M. J., **Schroeder, D. C.**, Jackson, C., Walcott, B., Calvacanti, M., Delaney, A., & Evans, M. (2016, May). *Broadening participation of underrepresented populations*. Video presented at the NSF 2016 Video Showcase. Available at <http://stemforall2016.videohall.com/>
- Mohr-Schroeder, M. J., Jackson, C., **Schroeder, D. C.**, Cavalcanti, M., Poe, K., Albers, S., & Williams, M. (2015, October). *Bolstering preservice teachers' STEM literacy via informal learning experiences*. Paper presented at the annual convention of the School Science and Mathematics Association Convention, Oklahoma City, OK.
- Mohr-Schroeder, M. J., Walcott, B. L., & **Schroeder, D. C.** (2015, June). *Bringing out the E in STEM education: Forging successful partnerships between colleges of education and engineering and the local school districts*. Paper presented at the annual Science and Mathematics Teacher Imperative Conference, New Orleans, LA.
- Schroeder, D. C.**, Jackson, C., Mohr-Schroeder, M. J., Powers, L. B., Albers, S., Poe, K., Roberts, O. T., Blyman, K., & Cavalcanti, M. (2015, April). *Tapping the potential of struggling learners of mathematics: Instructional strategies*. Gallery workshop presented at the annual meeting of the National Council of Teachers of Mathematics, Boston, MA.
- Lee, C.**, & Schroeder, D.C. (2015, April). *Transformational geometry applied through the use of Sketchup*. Burst presented at the annual meeting of the National Council of Teachers of Mathematics, Boston, MA.
- Schroeder, D.C.**, Jackson, C., Mohr-Schroeder, M. J., Blyman, K., Roberts, T., & Cavalcanti, M. (2014, November). *Motivating and inspiring middle level students' interest in STEM via STEM Camp*. Paper presented at the annual convention of the School Science and Mathematics Association, Jacksonville, FL.
- Jackson, C., Mohr-Schroeder, M., **Schroeder, D.C.**, Roberts, T., Blyman, K., & Cavalcanti, M. (2014, November). *Preparing prospective teachers to work with students who struggle in mathematics*. Paper presented at the annual meeting of the School Science and Mathematics Association, Jacksonville, FL.
- Jackson, C., Mohr-Schroeder, M. J., & **Schroeder, D. C.**, & Powers, L. B. (2014, April). *Instructional strategies for students who are struggling in mathematics*. Gallery workshop at the annual meeting of the National Council of Teachers of Mathematics, New Orleans, LA.
- Jackson, C., **Schroeder, D. C.**, & Little, D. L. (2013, November). *Informal Learning Environments in STEM Education*. Paper presented at the annual meeting of the School Science and Mathematics Association, San Antonio, TX.
- Mohr-Schroeder, M. J., Jackson, C., Little, D., & **Schroeder, D. C.** (2012, November). *See Blue Mathematics Outreach Initiative: Tapping the potential of struggling learners*. Paper presented at the annual meeting of the School Science and Mathematics Association, Birmingham, AL.

Schroeder, D. C., Thomas, J., & Hunter, S. (2012, February). *Classroom integration of the Common Core State Standards for Mathematics*. Presentation at the Council on Post-Secondary Education National Forum, Louisville, KY.

Schroeder, D. C., Mohr, M. J., Stevens, J. T., Ma, X., Tyler, K., & Millman, R. (2008, March). *A look at attitude and achievement as a result of self-regulated learning in Algebra I*. Paper presented at the annual meeting of the American Educational Research Association, New York, NY.

Schroeder, D. C., & Mohr, M. J. (2007, November). *A look at attitude and achievement as a result of self-regulated learning in the Algebra I classroom*. Paper presented at the annual meeting of the School Science and Mathematics Association, Indianapolis, IN.

Eli, J. A., & **Schroeder, D. C.,** (2007, November). *Alpha Gamma's road to success: Tips for establishing a review process*. Poster presented at the annual Kappa Delta Pi Convention, Louisville, KY.

Mohr, M. J., Binks, E., Smith, D. L., Smith, L., & **Schroeder, D. C.** (2007, April). *Using research-based literacy strategies to improve mathematics achievement in the middle grades*. Paper presented at the annual meeting of the American Educational Research Association, Chicago, IL.

Schroeder, D. C., Mohr, M. J., Goldsby, D., & Eli, J. A. (2007, March). *An assessment of mathematics knowledge for teaching: Comparing elementary and middle grades preservice teachers*. Poster presented at the annual meeting of the National Council of Teachers of Mathematics, Atlanta, GA.

Regional, State, and Local:

Schroeder, D.C. (2023, November). *Bringing the community as partners into your classroom*. Invited presentation at the Pre-Service Teacher Workshop at the University of Kentucky, Lexington, KY.

Jackson, C., Mohr-Schroeder, M. J., **Schroeder, D. C.,** Little, D. L., Speler, L., & Schooler, W. (2013, November). *Tapping the potential of struggling learners*. Paper and workshop presented at the regional meeting of the National Council of Teachers of Mathematics, Louisville, KY.

Mohr-Schroeder, M., Jackson, C., **Schroeder, D. C.,** & Little, D. L. (2013, March). *Tapping the potential of struggling learners*. Paper presented at the annual meeting of the Kentucky Center for Mathematics, Lexington, KY.

Jackson, C., Mohr-Schroeder, M. J., **Schroeder, D. C.,** Little, D. L. (2013, November). *Tapping the potential of struggling learners*. Paper and workshop to be presented at the regional meeting of the National Council of Teachers of Mathematics, Louisville, KY.

Mohr-Schroeder, M., Jackson, C., **Schroeder, D. C.,** & Little, D. L. (2013, March). *Tapping the potential of struggling learners*. Paper presented at the annual meeting of the Kentucky Center for Mathematics, Lexington, KY.

- Schroeder, D. C.** & Feese, N. (2012, March). *Creating assessments aligned with the Common Core State Standards for Mathematics*. Presentation at the annual meeting of the Kentucky Center for Mathematics, Lexington, KY.
- Mohr-Schroeder, M. J., Jackson, C., Bouwma-Gearhart, J., & **Schroeder, D. C.** (2012, January). *Tapping the potential of struggling learners: The SEE BLUE Mathematics Clinic*. Paper presented at the annual meeting of the University of Kentucky STEM Education Symposium, Lexington, KY.
- Schroeder, D. C.**, & Mohr-Schroeder, M. J. (2010, October). *3-D Manipulations and Constructions using FREE Google Sketchup*. Paper presented at the annual meeting of the Kentucky Council of Teachers of Mathematics, Somerset, KY.
- Schroeder, D. C.**, Lee, C. W., & Mohr-Schroeder, M. J. (2010, June). *3-D Manipulations and Constructions using FREE Google Sketchup*. Paper presented at the annual Innovations for Learning Conference, Lexington, KY.
- Schroeder, D. C.**, & Mohr-Schroeder, M. J. (2010, June). *Using digital literacies to build a professional learning network*. Paper presented at the annual Innovations for Learning Conference, Lexington, KY.
- Mohr-Schroeder, M. J., & **Schroeder, D. C.** (2009, October). *Integrating digital literacies into your classroom*. Paper presented at the annual meeting of the Kentucky Council of Teachers of Mathematics, Paris, KY.
- Schroeder, D. C.**, & Mohr, M. J. (2007, April). *A look at attitude and achievement as result of implementation of self-regulated learning strategies in Algebra I*. Poster presented at the annual Spring Research Conference, Lexington, KY.
- Eli, J. A., & **Schroeder, D. C.** (2006, June). *Using technology to enhance mathematics understanding*. Presented at the annual meeting of the Future Educators of America Workshop, Lexington, KY.
- Schroeder, D. C.**, & Eli, J. A. (2006, June). *Classroom Management: Making your classroom a home away from home*. Presented at the annual meeting of the Future Educators of America Workshop, Lexington, KY.
- Schroeder, D. C.**, & Eli, J. A. (2006, June). *Why do we teach?* Presented at the annual meeting of the Future Educators of America Workshop, Lexington, KY.
- Professional Development Designed and Facilitated:*
- Schroeder, D. C.**, & Harris, E. (2017, June). *Spinning in Circles: Exploring Circular Motion at the Rack Track*. Presented at the University of Kentucky NOYCE Teacher Workshop at General Butler State Park, Carrollton, KY.
- Schroeder, D. C.** (2016, June). *Transdisciplinary approach to regressions*. Presented at the University of Kentucky NOYCE Teacher Conference at Cumberland Falls State Park, Corbin, KY.

- Schroeder, D. C.** (2015, June). *Applied uses of Sketchup*. Presented at the University of Kentucky NOYCE Teacher Workshop at Carter Caves State Park, Olive Hill, KY.
- Schroeder, D. C.** & Powers, L. B. (2014, August). *iPads in the classroom*. Presented at Beaumont Middle School, Lexington, KY.
- Schroeder, D. C.** (2014, June). *Creating and 3D printing your visions with SketchUP*. Presented at the University of Kentucky NOYCE Teacher Workshop at Lake Cumberland State Resort Park, Jamestown, KY.
- Schroeder, D. C.** (2014, February). *Fish lab: A common assignment study lesson*. Presented to the principal cadre of the Common Assignment Study at Plantory, Lexington, KY.
- Schroeder, D. C.,** & Demeter, S. (2013, August). *iPad apps for integration in the middle school classroom*. Presented at Beaumont Middle School, Lexington, KY.
- Schroeder, D. C.** (2013, August). *Bridging between KCAS and the Next Generation Science Standards*. Presented at Scott County Public Schools, Georgetown, KY.
- Schroeder, D. C.** (2013, June). *Developing project-based-learning units from the Common Core State Standards for Mathematics and the Next Generation Science Standards*. Presented at the University of Kentucky NOYCE Teacher Workshop at Lake Cumberland State Resort Park, Jamestown, KY.
- Schroeder, D. C.,** & Schroeder, M. J. (2012, August). *Implementing the Framework for the Next Generation Science Standards*. Catholic Diocese of Lexington, Lexington, KY.
- Schroeder, D. C.,** & Schroeder, M. J. (2012, August). *Implementing the Common Core State Standards for Mathematics*. Catholic Diocese of Lexington, Lexington, KY.
- Schroeder, D. C.** (2012, March). *Implementing lessons leveraging 21st century skills*. Jessie Clark Middle School, Lexington, KY.
- Schroeder, D. C.** (2012, February). *Going in circles with Geogebra*. Fayette County Mathematics Instructional Learning Community, Lexington, KY.
- Schroeder, D. C.** (2012, February). *How to leverage Geogebra for statistical analysis*. Fayette County Math Leadership Network, Lexington, KY.
- Schroeder, D. C.** (2012, January). *Using Geogebra for real-life problems*. Central Kentucky Mathematics Content Leadership Network, Lexington, KY.
- Schroeder, D. C.** (2012, January). *Are learning and enjoyment correlated?* Fayette County Middle School Math Leadership Team, Lexington, KY.
- Schroeder, D. C.** (2012, January). *I need a math translator*. Transylvania University College of Education, Lexington, KY.

Schroeder, D. C. (2011, November) *Introduction to mathematics with Geogebra*. Beaumont Middle School, Lexington, KY.

Schroeder, D. C. (2011, November). *The next generation of mathematics teachers*. Transylvania University College of Education, Lexington, KY.

Schroeder, D. C., & Ellingsworth, M. A. (2011, October). *New standards in mathematics and language arts*. Beaumont Middle School, Lexington, KY.

Panel Discussions

(May, 2024) *NIC-Cast: K–12 Representative Panel on Creating Bidirectional, Mutually Beneficial Relationships*. (University of Auburn)

Professional Memberships

- School Science and Mathematics Association (SSMA)
- Association for Mathematics Teacher Educators (AMTE)
- National Science Teachers Association (NSTA)