

EDUCATIONAL VITAE
Dr. Shirley A. Disseler, EdD
Chair, Elementary and Middle Grades Department
STEM Coordinator, High Point University
LEA Trainer, LEGO Education
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Educational Background:

- UNCC Doctorate Educational Leadership: Curriculum and Supervision 2010
- UNCG Visions Student PhD Program Curriculum and Instruction 2005-2006
- UNC-Charlotte Masters of Elem. Ed. (1996-1999) Degree 1999
- UNC-Charlotte PostBac Reading and Elementary Ed. (1989-1993)
- BA Degree Campbell University (1979-1983) Degree 1983
- South Rowan High School (1976-1979)

Current Certifications:

- K-6 Elementary Education and Reading
- 6-9 Language Arts
- 6-9 Mathematics
- 6-9 Social Studies
- 6-9 Science
- Masters Elementary Ed. "G" Certificate
- National Boards Middle Childhood Generalist (Renewed 2018)
- Academically and Intellectually Gifted K-12
- Advanced Degree Curriculum and Supervision (Principal's License)

Teaching Experience:

- High Point University Associate Professor & Chair of Elementary and Middle Grades (2010 – present)
High Point School of Education STEM Coordinator (2012-present)
- Rowan-Salisbury Schools Middle Grades Curriculum Specialist 2009 - 2010
- Rowan-Salisbury Schools: Southeast Middle School Curriculum Facilitator 2007 – 2009
- UNCC Student Teaching Supervisor (2007-09)
- Rowan-Salisbury Schools: Southeast Middle School Science and AIG Math Grade 6 (2000 – 2007)
- Rowan-Salisbury Schools: Hurley Elementary School –Grade 4 All areas. (1994-2000)
- Rowan -Salisbury Schools: Migrant Education K-8 (1992-1994)

Professional Memberships:

- Teachers2Teachers International Board Member (2015-present)
- First LEGO League NC Board Member (2015-present)
- Elementary Educators of America (2013- present)
- AMLE (2012-2017)
- LEAP: Lego Education Ambassador Panel) 2011-Present
- State Network of Educators for Smarter-Balanced Development 2013- 2014
- Alliance for STEM Education 2011- present
- Who's Who for Professional Women 2013-present
- National Board for Professional Teaching Standards 1999 - present
- Middle School Association Region 6 Representative
- Golden Key National Honor Society 1999- present
- Kappa Delta Gamma 1999- 2014
- NCCTM 1994 - present
- NCSTA 1994 - present
- International Society of Poets
- Phi-Kappa-Phi

- ASCD 2010- present
- NCAEE 2010 - present

Staff Development Activities and Leadership Activities:

- Director: Teacher Academy High Point University
- EdTPA Scorer (2016-present)
- NCDPI/ NCACTE Program reviewer
- Curriculum Development Consultant LEGO Education Denmark (2013-2016)
- LEGO Education Specialist North America (Product Development) 2012-2014
- LEA Representative for HPU NCDPI/ NC Falcon (2011- 2013)
- Smarter Balanced Assessment Development Training (2013-2014)
- STEM Forum: (2012)
- Poverty Training: Allen Jay Elementary (2011)
- NC Partners in Mathematics Train the Trainer Model (2007- present)
- Journal of Global Education and Research (2017) Editorial Board
- Journal of Elementary Mathematics (2016) Editorial Board
- Teaching Children Mathematics (2015) Editorial Board

Presentations:

- State Mathematics Conference (2009, 2010, 2011, 2013, 2014, 2015, 2016,2017)
- NC Middle School Conference (2009, 2014, 2016, 2017)
- ASCD Conference at Pinehurst (2009, 2018)
- Organizing Kids for the math Classroom (2011 & 2013, 2014)
- Brain-Friendly Mathematics (2005)
- Making Students Love Learning (2002)
- **State Science Conferences:**
 - NCSTA WeDo Engineering Too! (2012/2013/2015/2017)
 - NCSTA : Strategies to Engage Kids in STEM (2012)
 - Chemistry in the Classroom (1998)
 - Space Camp for Students (1997)
- North Carolina Association of Elementary Educators: Strategies to Engage Kids in Common Core (2012)
- Regional Math Conferences:
 - LEGO Education for Administrators Symposiums (2013, 2014,2016)
 - Organizing Kids for the Math Classroom (2012 & 2013)
 - Essential Thinking in Mathematics (1998)
- National Conferences:
 - DALI(Administrative Leadership Conference) (2015, 2016)
 - National Elementary Engineering Conference (2014)
 - National STEM Conference (2011)
 - Lego Education Summit Kansas (2012 & 2013)
 - Illinois STEM Conference Key Note (2014)
 - Center for Creative Economy Key Note (2018)
- International Conferences:
 - SENA: Making Columbia Number One in Education: Bogota' Columbia South America (2013)
 - World Robotics Conference: Deep Dive in American Education (2014)
 - International Conference on Elementary Education: Creativity Crisis in the Classroom (2014)
- Conferences Developed: Regional NCAEE Conference Director (2011)
- Closing the GAP Conference (2012, 2014, 2017)
- Wake Forest Health Conference on Creative Workplace: Kenote (2018)

Awards and Special Recognitions of Teaching:

- Meredith Clark Slane Distinguished Teaching Award (2017)
- Who's Who Among Professional Women (2012)
- Time Warner Cable: Star Teacher Award (2007)
- Time Magazine Teaching Excellence Top 18 Teachers Award (2002)
- Malibu Teaching Award Finalist (2000)

- Hornets Award for Excellence in Teaching (2000)
- National Boards: MCGEN (1999) Renewed (2018)
- Presidential Award for Excellence in Teaching Math and Science (State finalist) 1999
- Distinguished Teachers Panel (2000)
- Rowan County Math Teacher of the Year (1999)
- Teacher of the Year Southeast Middle (2000-2001)
- County Teacher of the Year Finalist (2001 and 1997)
- Teacher of the Year Hurley Elementary (1997)

Grants:

- 2016 Math Science Partnership Grant (Co-PI)
- 2016 Think Big Grant Proposal (not selected) Middle School STEM Career Series Project
- 2012 LEGO Education Showcase Grant
- 2006; 2007 Bright Ideas Grant
- 2005 National Starch and Chemical Grant
- 2004 Time for Kids Magazines for Life
- 1997 Educational Foundation Grant
- 1996 National Science Teacher's Foundation Grant
- 1996 Touch the Future Grant

Initiatives & Programs Developed:

Brick Math Series: 2016-present (a K-8 Math curriculum)

Come Build with Us! at HPU (2012- present)

Teacher Academy for Educational Outreach at HPU (2013- present)

STEM in Action Community Showcase (2012 – present)

Executive Training Center for LEGO Executives (2014- present)

MoreToMath grades 1-2: LEGO Education Global (2014)

WeDo 2.0 Engineering for the Elementary School LEGO Education Global (2016)

Space Academy for Pre-service Teachers (Developed in Partnership with US SPACE Camp Huntsville, AL)

Publications:

- **Poetry:**
- "A Child's Darkness" Published by the International Society of Poets in a work entitled: [A Walk in the Garden.](#)
- **Articles:**
 - Disseler, S. & Allen, T. (2017) Using online gaming to prepare pre-service teachers for licensure test in Mathematics. *International Journal of Strategic Information Technology and Applications* (7)3.
 - Disseler, S. (2017). The move to the middle: The trials of transitioning. *AMLE*
 - Disseler, S. and Mirand, G. (2017) Students with Disabilities and LEGO® Education: An Inquiry-Based Approach to Improve Growth in Mild and Moderate Disabilities. *Journal of Education and Human Development*. Vol. 6 (3).
 - Disseler, S. (2017). Igniting Engagement and Motivation to Learn Math Intrinsically: It Works! *NCASCD Summer 2017*.
 - Disseler, S. & Tompson, A. (2014) Gender differences in middle grades mathematics, *Cantroid* (39)3. NCCTM.
- **Books**
 - Disseler, S. (2017). *The Brick Math Series: Teaching Counting and Cardinality Using LEGO Bricks*. Brigantine Media and Compass Publishing. Vt.
 - Disseler, S. (2017). *The Brick Math Series: Teaching Addition Using LEGO Bricks*. Brigantine Media and Compass Publishing. Vt.

Disseler, S. (2017). *The Brick Math Series: Teaching Subtraction Using LEGO Bricks*. Brigantine Media and Compass Publishing, Vt.

Disseler, S. (2016). *The Brick Math Series: Teaching Fractions Using LEGO Bricks*. Brigantine Media and Compass Publishing, Vt.

Disseler, S. (2017). *The Brick Math Series: Teaching Multiplication Using LEGO Bricks*. Brigantine Media and Compass Publishing, VT.

Disseler, S. (2017). *The Brick Math Series: Teaching Division Using LEGO Bricks*. Brigantine Media and Compass Publishing, VT.

Disseler, S. (2018 in press). *The Brick Math Series: Teaching Advanced Fractions Using LEGO Bricks*. Brigantine Media and Compass Publishing, VT.

Disseler, S. (2014). *Strategies and Activities for Common Core Grades 3-5 Part 1*. Compass Publications. New Jersey.

Disseler, S. (2014). *Strategies and Activities for Common Core Grades 3-5 Part 2*. Compass Publications. New Jersey

Disseler, S. (2014) Math practices for early learners in *More to Math. LEGO Education*.

o **Articles Under Consideration:**

Teacher Pre-Service Education! A new Model for STEM (Journal of STEM Teacher Education)
Integrated Instruction: Linking conceptual thinking and content in pre-service education. (Journal of Teacher Education)

Blogs:

Disseler, S. (2014) Common Core in the 21st Century. *Strategy Magazine*.

Disseler, S. (2013) Create to Motivate. *NCAEE It's Elementary*

Disseler, S. (2016) What does it mean to know and do Math?". National PTA Online Magazine.

Disseler, S. (2014) Create to Motivate! Putting the Fun Back in School! NCAEE1 Its Elementary.

Disseler, S. (2014) Exploring 2-Digit Multiplication with Base 10 Blocks. Corkboard Connections.