# 2018 SCCTM Fall Conference

42nd Annual Business Meeting

November 14 – 16, 2018

Columbia, South Carolina

# Change the World of Mathematics Sow a Seed

*South Carolina Council of Teachers of Mathematics*


Visit Booth for Product Solutions

# KEYNOTES

## Luke Dollar

National Geographic Explorer

Opening Keynote

**Wednesday, November 14**

**7:00 PM**

**General Session**

**Ballroom A/B**

## Laurie Boswell, Ed.D

Author

**Thursday, November 15**

**1:45 PM**

**General Session**

**Ballroom A/B**

## Bringing the World Into the Classroom

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# Pearson Math Curriculums and Textbooks

High-quality mathematics instruction ensures that students become problem solvers. We believe all students can develop deep conceptual understanding and procedural fluency in mathematics. In doing so, we help our students grapple with real problems, think mathematically, and create solutions.

## enVisionmath2.0

SCOTT FORESMAN • ADDISON WESLEY

***enVision**math**2.0*** is a comprehensive K-8 mathematics curriculum with superior focus, coherence, and rigor. Ensure success at every level with problem-based learning, embedded visual learning, and personalization to empower every teacher and student.

### Why **enVision**math**2.0**?

- **Proven Instructional Design**
  ***enVision**math**2.0*** emphasizes conceptual understanding. Problem-based learning facilitates productive struggle strengthening students' ability to think mathematically.
- **Personalized and Adaptive**
  With a wide variety of differentiation resources and strategies to choose from and innovative features like Adaptive Practice powered by Knewton, ***enVision**math**2.0*** makes math relevant to all students.
- **Unmatched Authorship Team**
  The ***enVision**math**2.0*** authors, trusted in their respective fields, are renowned in mathematics education.
- **One Powerful, Integrated System**
  Access all content, resources, assessments, and student data on Pearson Realize. This powerful learning management system gives you instant access to everything you need and want, in a single place.
- **With You Every Step of the Way**
  Our professional development resources serve teachers and administrators alike. From face-to-face training to 24/7 virtual and on-demand support, we deliver the resources you need to get the most out of ***enVision**math**2.0***.

**https://www.pearsonschool.com/**

## SCCTM appreciates Pearson's Sponsorship!

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# 2018 SCCTM Fall Conference

## 42nd Annual SCCTM Business Meeting

November 14- 16, 2018 Columbia, SC

# Change the World of Mathematics Sow a Seed

**Nationally Acclaimed Keynotes, Sessions, Workshops, Math Trails, Field Trips, and Exhibits, comprise the Conference activities held at the Columbia Metropolitan Convention Center Columbia, South Carolina**

### Registration

Registration will be held in the Lobby of the Convention Center on Wednesday evening, Thursday, and Friday, during the following hours:

| | |
|---|---|
| Wednesday, November 15 | 4:15 pm - 6:45 pm |
| Thursday, November 16 | 7:30 am - 12:30 pm |
| Friday, November 17 | 7:30 am - 9:30 am |

### Exhibits

Mathematics instructional materials, software, publications, and professional services will be displayed in the Conference Hall of the TD Convention Center. Commercial exhibits will be open during the following hours:

| | |
|---|---|
| Thursday, November 15 | 8:00 am - 4:00 pm |
| Friday, November 16 | 8:00 am - 2:00 pm |

### Table of Contents

Dear SCCTM Members and Fellow Mathematics Educators,

Welcome to the 2018 SCCTM Annual Fall Conference! The Executive Board is pleased to present an extensive program of professional development opportunities. The Conference will take place on November 16 and 17 at the Columbia Metropolitan Convention Center in Columbia, South Carolina. We will begin the conference with the opening session on Wednesday at 7:00 pm followed by a reception. This year's theme is:

## Change the World of Mathematics – Sow a Seed

We are excited to present some of the most outstanding keynotes and featured speakers. All are nationally known speakers, along with some who are internationally known, who are all in high demand. We are extremely pleased to have them at this year's conference. Biographies of the keynote speakers and featured speakers may be found in the pre-conference newsletter and program booklet. This is a professional development experience that you don't want to miss. The keynote and featured speaker line-up is shown as follows:

**Opening Session Keynote Speaker – Dr. Luke Dollar, National Geographic**
**Keynote Speaker – Dr. Robert Q. Berry, NCTM President**
**Keynote Speaker – Dr. Laurie Boswell, Big Ideas Learning**
**Keynote Speakers – Dr. Matt Larson, Houghton Mifflin Harcourt**
**Closing Session Keynote Speaker – Dr. Eric Milou, Pearson Education**

EdVenture, S2TEM Center, and Texas Instruments will sponsor rooms hosting a variety of sessions and workshops. In addition, there will be many sessions and workshops conducted by fellow mathematics educators from South Carolina, the Southeast, and the nation sharing new ideas on how to "**Sow a Seed**" in your mathematics classrooms so that you and your students together can "**Change the World of Mathematics.**" Please make plans to attend the opening session and closing session. From the response we got from last year's conference, know that you will not want to miss out on the ideas and teaching strategies that these speakers will share with us. In addition, please remember to attend the annual business meeting held at the end of Thursday sessions. This meeting is where you get to see your South Carolina Council of Teachers of Mathematics leaders in action and find out about all the benefits that come with your membership. After attending this year's conference, it is our hope that some of you will aspire to become a part of the SCCTM leadership team.

On behalf of the Executive Board, I would like to thank each of the conference speakers and attendees, as well as our exhibitors and sponsors, for a successful SCCTM 2018 Fall Conference. We look forward to seeing each of you in Columbia.

Sincerely,

*Morondo Lewis*

Morondo Lewis, SCCTM Past President
2018 Fall Conference Program Chair

## Registration

On-site registration will be held in the Lobby of the TD Convention Center. Please register and pick up conference materials on Wednesday evening if possible.

If you pre-registered and have made payment, you should go to the Fast Track Line at registration where you may pick up your conference materials. If you are registering on-site, prior to getting in line, go to scctm.org and register online using a computer or smart device and then take your check or PO payment to the On-site Registration counter where a volunteer will process your payment and provide you with a name badge and conference materials.

Your name badge must be displayed to gain entry to all presentations and exhibits.


## Hotel Information

The Conference hotels are the Hilton Columbia Convention Center on Senate Street and the Hampton Inn Columbia-Downtown Historic District on Gervais Street.

## Parking

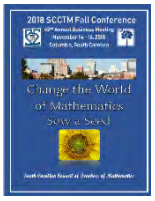
Limited free parking is available for commuters at the Columbia Metropolitan Convention Center for conference attendees.

## On-Site Food Concessions

Concessions will be available each day in the Convention Center. Vouchers for Lunch in the Conference Hall are provided with your conference material. Per facility policy, NO FOOD MAY BE BROUGHT IN FROM OUTSIDE THE CONFERENCE CENTER.

### Program Updates

Be sure to check the Conference Program Program Book. If you planned your schedule based on the Preliminary Program, please compare it to the current Program Book to make sure the sessions you have chosen have not changed or been cancelled at the last minute.




## Special Needs

Physically challenged registrants in need of services should contact Leigh Martin, Site Chair.

## Directory of Important Locations

Commercial Exhibits .....*Conference Hall*
Conference Headquarters …….*Spires Board Room*
Message Board .....*Conference Hall*
NCTM Materials..... ..... *Conference Hall*
Registration ..... *Lobby*
Speaker Check-in……..*Registration*
Student Pages Check-in *Registration*

## Other Meetings

**SCLME**.....*Wednesday, Ballroom A/B*

## Commercial Exhibits

Textbooks, computers, software, and other instructional materials will be displayed in the Conference Hall of the TD Convention Center. Hours are Thursday from 8:00 am to 4:00 pm and Friday from 8:00 am to 2:00 pm.

## NCTM/SCCTM Materials

Review and purchase educational materials in the sales area located at the front of the Conference Hall. Drop by this area and browse through the excellent selection of available materials to assist you in planning curriculum, instruction and assessment.

## Student Pages

College students will serve as pages. They have volunteered their time to assist speakers and conference attendees. They have been asked to help ensure that room capacities for all presentations are observed in accordance with fire codes.

## SCCTM Position Statement

SCCTM prohibits the use of copyrighted materials in sessions unless prior permission has been obtained. Advertisements contained in this booklet or references to products by speakers are not to be considered endorsements by the state organization.

## Safety Regulations

The Columbia Metropolitan Convention Center adheres to all fire and emergency evacuation codes. SCCTM asks for your cooperation with the enforcement of these codes.

# Conference Highlights

## The 42nd Annual SCCTM Business Meeting and Awards Ceremony

**Thursday, November 15**
**4:45 pm in Ballroom A/B**

At the end of the meeting, drawings will be held for
FABULOUS door prizes
**You must be present to win!**

## Hors d'oeuvres will be served

**On the way into the meeting, fill up your plate and join your friends and colleagues at the banquet tables in Ballroom A/B**

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## Presentations using Technology

***Texas Instruments*** - *Sponsored by TI*

***Promethean Board Room*** - *Sponsored by Promethean*

***SmartBoard Room*** - *Sponsored by Francis Marion University*

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## Edventure Math Trail

Experience Edventure through a mathematical perspective.

**Thursday, Session # 28**

You must be pre-registered for the trail. Go to scctm.org to register.

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# Corporate Sponsors

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**Texas Instruments**
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# Conference Highlights

## S²TEM Centers SC


**Thursday & Friday – *Lexington Room A***

S²TEM Centers SC Education Specialists support learners and leaders by creating custom, client driven informational sessions that focus on specific learning outcomes and maximize participant interaction.

S²TEM Centers SC
Solutions in Science, Technology, Engineering & Mathematics Education

SCCTM has partnered with S²TEM Centers to provide special workshops.

EdVenture
EDUCATION. EVERYONE.

**EdVenture-to-Go! Bringing EdVenture to you.**

*Sponsored by EdVenture Children's Museum*

**Thursday & Friday – *Lexington Room B***

You are in for a special treat and great professional development opportunities. Come away with new activities for your classroom. EdVenture is known for their support of the PK – 5 grade levels but many include general workshops through all levels.

## Wednesday's Opening KEYNOTE SESSION

# Dr. Luke Dollar

*Sponsored by National Geographic*

Dr. Dollar will present
on Wednesday, Session 1
at 7:00 pm Ballroom A/B.

### *Ups, Downs, Problems, & Solutions: A Treasure Trove of Data*

**Luke Dollar** is a National Geographic Explorer and a wildlife biologist with more than 25 years' experience coordinating conservation, research, educational, and development programs. Dollar's scientific research focuses on carnivores ranging from big cats to Madagascar's largest carniovore, the fosa (*Cryptoprocta ferox*), and satellite analyses of their habitat. More than 50 percent of his overall efforts are concentrated on grassroots education and sustainable employment programs for local people sharing space with Africa's predators. Dollar's efforts have not only yielded a trove of data on carnivore biology and behavior, but his programs have led to the development of scholastic and sustainable business programs benefiting thousands of local subsistence farmers and their children. He served as program director of National Geographic's Big Cats Initiative from 2009 to 2017 and is currently Bashore Distinguished Professor and Chair of the Department of Environment and Sustainability at Catawba College and Adjunct Professor of the Environment at Duke University.

NATIONAL GEOGRAPHIC

## Thursday's Morning KEYNOTE SESSION

# Dr. Robert Q. Berry III

President, National Council of Teachers of Mathematics

*Sponsored by SCCTM*

Dr. Berry will present on

Thursday at 9:15 am,

Session 17 in Ballroom A/B.

*Catalyzing Change: Identity, Agency, Positionality and Equitable Instructional Practices*

Robert Berry III is president of the National Council of Teachers of Mathematics (NCTM), a 50,000-member international mathematics education organization.

Robert Q. Berry III is a Professor in the Curry School of Education at the University of Virginia, with an appointment in Curriculum Instruction and Special Education. Berry teaches mathematics methods courses in the teacher education program at the University of Virginia. Additionally, he teaches graduate level mathematics education courses and courses for in-service teachers seeking a mathematics specialist endorsement. He is a former middle school teacher and was twice named Teacher of the Year in Virginia.

Equity issues in mathematics education are central to Berry's research efforts within four related areas: (a) understanding Black children's mathematics experiences (mathematical identities and agency); (b) measuring standards-based mathematics teaching practices; (c) unpacking equitable mathematics teaching and learning; and (d) exploring interactions between technology and mathematics education. Berry has extensive experiences in classroom observation and is the lead developer of an observation instrument, *Mathematics Scan*, which measures standards-based mathematics teaching practices.

Berry has collaborated on the Children's Engineering Initiative in the Curry School of Education to use digital fabrication to incorporate engineering design principles into mathematics education. His most recent work has focused on using qualitative metasynthesis as an approach to understand the mathematics experiences of learners

Berry has published nearly 100 articles, book chapters, and proceedings. His articles have appeared in the *Journal for Research in Mathematics Education*, *Journal of Teacher Education*, and the *American Educational Research Journal*. Berry served on the Board of Directors of the National Council of Teachers of Mathematics 2011–2014 and is a two-time recipient of NCTM's Linking Research and Practice Publication Award. He was recognized as the 2011 Mathematics Educator of the Year by the Virginia Council of Teachers of Mathematics (VCTM), and received the University of Virginia's All University Teaching Award in 2011.

Robert Berry received his Bachelor of Science degree from Old Dominion University, his master's degree from Christopher Newport University, and holds a Ph.D. from the University of North Carolina at Chapel Hill.

## Thursday's Afternoon KEYNOTE SESSION

# Dr. Laurie Boswell

*Sponsored by Big Ideas Learning*

Dr. Boswell will present on Thursday at 1:45 pm,

Session 66 in Ballroom A/B.

*Using Learning Intentions and Success Criteria to Improve Teacher Clarity*

Laurie Boswell, Ed.D., is the former Head of School at Riverside School in Lyndonville, Vermont. In addition to textbook authoring, she provides mathematics consulting and embedded coaching sessions. Dr. Boswell received her Ed.D. from the University of Vermont in 2010. She is a recipient of the Presidential Award for Excellence in Mathematics Teaching and is a Tandy Technology Scholar. Laurie has taught mathematics to students at all levels, elementary through college. In addition, Laurie has served on the (NCTM) National Council of Teachers of Mathematics Board of Directors and as a Regional Director for (NCSM) National Council of Supervisors of Mathematics. Laurie has co-authored numerous math programs and has become a popular national speaker.

BIG IDEAS LEARNING®

# Dr. Matt Larson

*Sponsored by Houghton Mifflan Harcourt*

Dr. Larson will present on Friday at 9:15 am,

Session 106 in Ballroom A/B.

*Advocating for High Quality Math Instruction: Effectively Responding to Critics*

Dr. Matthew R. Larson is past-president of the National Council of Teachers of Mathematics and a Senior Fellow for Math Solutions. Prior to serving as president of NCTM, he was the K-12 mathematics curriculum specialist for the Lincoln Public Schools in Nebraska, where he currently serves as director of elementary education.

A prolific speaker and writer, he is the co-author of more than a dozen professional books. He was a member of the writing teams for major publications including *Principles to Actions: Ensuring Mathematical Success for All* (2014) and *Catalyzing Change in High School Mathematics: Initiating Critical Conversations* (2018). Key areas of focus include access and equity and effective stakeholder communication. He has taught mathematics at the secondary and college levels and held an appointment as an honorary visiting associate professor at Teachers College, Columbia University.

Houghton Mifflin Harcourt™

## Friday's Afternoon CLOSING KEYNOTE SESSION

# Dr. Eric Milou

*Sponsored by Pearson Education*

Dr. Milou will present on Friday at 2:30 pm,

Session 156 in Ballroom A/B.

*Using Learning Intentions and Success Criteria to Improve Teacher Clarity*

Dr. Eric Milou is a professor of mathematics at Rowan University in Glassboro, New Jersey. Dr. Milou has taught at Rowan for the past 20 years and served six terms as the President of the Rowan University Senate from 2007 to 2013. He previously served as President as the Association of Mathematics Teachers of New Jersey, the program chairperson of the 2007 NCTM annual meeting and has extensive speaking experience on standards-based reform in mathematics. He is one of the authors of digits, *EnVisions 6-8* and *EnVisions A|G|A* (published by Pearson) and was the recipient of the Max Sobel Outstanding Mathematics Educator Award in 2009.

PEARSON Education

Dear SCCTM Members and Fellow Mathematics Educators,

Welcome to the 2018 South Carolina Council of Mathematics (SCCTM) Annual Conference – Change the World of Mathematics: Sow a Seed! We are thrilled that you are able to attend the conference, network with other mathematics teachers, and take time to learn from one another!

I have looked forward to the Annual SCCTM Conference since I joined SCCTM in 1998! Each year, I look forward to seeing old friends, meeting new friends, and learning more about teaching and learning mathematics. This year I am eager to hear from our Keynote Speakers, network with new and preservice teachers, and learn about innovative technologies we can use in our classrooms. How will you make the most of your conference experience?

Stay connected with SCCTM after the conference by becoming a member. SCCTM members receive access to the online journal, The MathMate, and will be the first to know of upcoming events. SCCTM has allowed me to connect with numerous professionals for two decades and, as a member, I have had opportunities to collaborate with other members and learn more about my profession. If you are not a member, join today!
https://scctm.wildapricot.org/join/

I hope you each have a wonderful time at the conference! Thanks to everyone for all that you do to ensure South Carolina's students are engaged in learning mathematics!

Leigh Martin

Leigh Martin
2017– 2018 SCCTM President
2018- 2019 Conference Program Chair

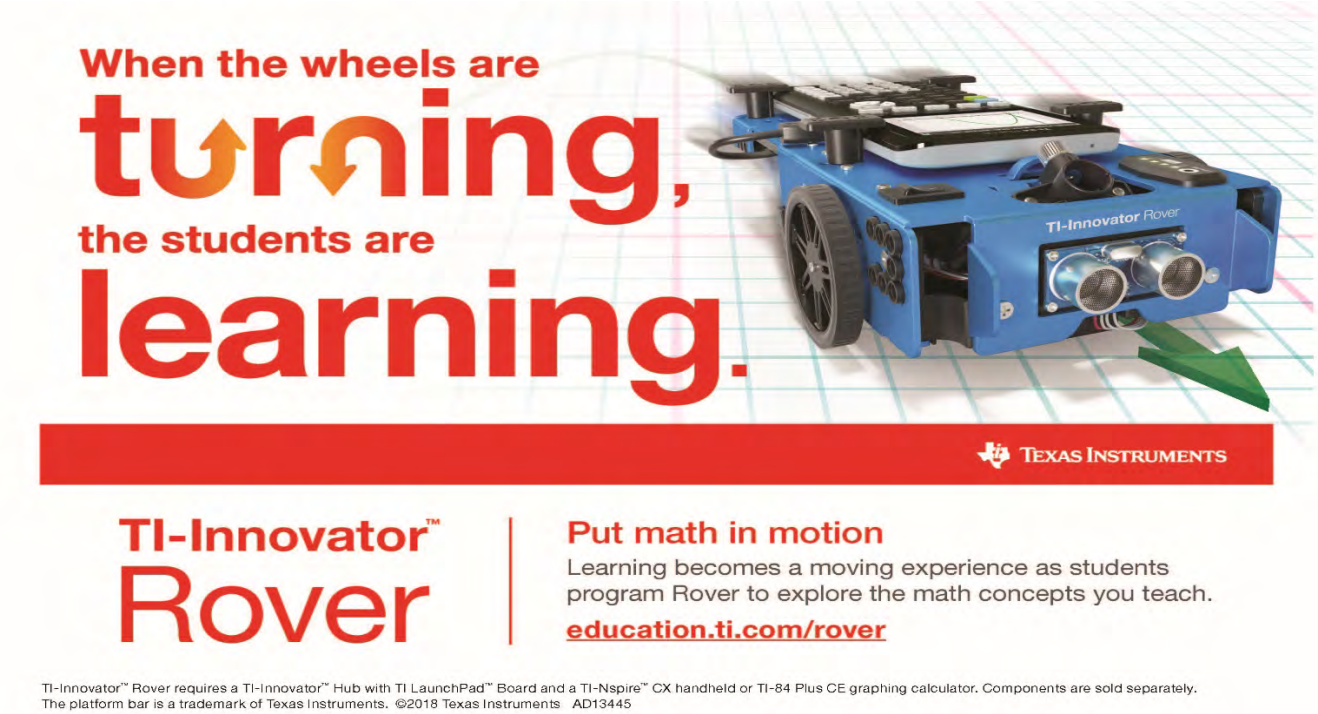
## Promethean Sessions in Carolina Room B

## SCCTM is Appreciative of Promethean's Support!


https://www.prometheanworld.com/

## Texas Instruments Sessions in Richland Room B

## SCCTM is Appreciative of Texas Instrument's Support!

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# 7:00 PM – 8:00 PM
# Opening Keynote Address

## 1. Ups, Downs, Problems, & Solutions: A Treasure Trove of Data

General | Ballroom A/B

National Geographic Explorer Dr. Luke Dollar will recount ups, downs, problems, and solutions from more than two decades in fieldwork, conservation, and education in Africa and the United States. The son of two teachers, Dollar grew up in the 1970s and 80s in the rural South with loves of both the classroom and the outdoors, and is happiest when both come together.

***Dr. Luke Dollar***

## Thursday, November 15th

## 8:00 – 9:00 SESSIONS

**2. Math! When Am I Ever Going to Use That?**

**Brad Fountain**

Discovery Education

6th - 12th | Ballroom A/B

Have you ever gotten that question? The answer is, when are you are not going to use it? There is a reason for dramatic jumps in achievement in schools that go digital—it works with students!

**3. Sowing the Seed of Literacy to Improve Problem Solving**

**Angela McCord**

MC Squared Consulting, LLC

6th – 8th | Ballroom C

Participants will learn how to create a literacy rich mathematics classroom by facilitating discussions and enhancing lessons that improve critical thinking and problem solving.

**4. Math Their Way through BUILD and Play**

**Lisa Daniels**

Richland District 2

PreK – 2nd | Hall of Fame Room

Learn new math strategies and games to keep students engaged in a structured math rotation using games, read a-louds and various fun activities.

**5. Raise Student Engagement: Invite Six Co-Teachers to Join Your Classroom**

**Amy Adams**

Algebra Nation

6th – 12th | Lincoln Room

Come learn about Algebra Nation, FREE Algebra 1 resources including instructional videos, online testing platform, an interactive algebra wall, teacher resources and more.

**6. Rethinking homework… again. Let ALEKS.com manage your homework, learning & assessments!**

**Kathleen Traylor**

Charleston County Schools

3rd – 12th | Senate Room

Did you know that ALEKS.com can assign and grade homework? Give tests and quizzes? Provide differentiation? See how ALEKS made this math teacher's life easier!

**7. Let's Mix it all Up!**

6th – 8th | Carolina Room A

**Marsha Neal**

Hardeeville-Ridgeville Middle

Learn how to get your middle school students excited about both math and reading with a math literature library with hands-on activities!

**8. Games and Activities for Numerical Fluency**

6th – 8th | Carolina Room B

**Jim deBerjeois**

Big Ideas Learning

This session is a fast-paced, highly-motivating workshop designed to help teachers engage all students in the classroom experience. Games and activities help develop fluency and strategic thinking. At the end of this session, participants will leave with games and activities they can immediately implement in the classroom

so that they will be successful!

## Thursday, November 15th

## 8:00 – 9:00 SESSIONS

**9. STEM Isn't Just "Child's Play."**

K – 12th | Lexington Room A

**Dorothy Earle & Tracey Campbell**

S²TEM Centers SC

Many teachers are hesitant to implement STEM lessons because they believe that they don't have time for students to "play". Participants will discuss STEM learning that takes place on a continuum ranging from teambuilding to transdisciplinary learning.

**10. Experiential Play: Experience Math's Relevance**

K – 8th | Lexington Room B

**Matt Wicker** Museum Education Manager

Edventure

Participants will engage in some mock play and challenges to get them thinking about how to use and apply mathematical knowledge.

**11. Worksheet Woes**

K – 5th | Richland Room A

**Jennifer G Berry & Brittini Smith**

Longleaf Middle, Richland 2

Quick and Easy to implement strategies to foster student engagement and collaboration, such as Quiz-Quiz-Trade, Hand-Up Stand-Up Pair-Up, HeadBands, Consensograms, and Effective Exit Slips.

**12. How Formative Assessment Lessons Changed My Classroom Dynamics and Boosted Engagement**

6th – 12th | Richland Room B

**Marina Mosneaguta**

Alice Drive Middle, Sumter

FALs are my students' favorite challenges, which allow them to develop a better understanding of key mathematical ideas and applications and improve critical reasoning skills.


SCCTM Poster Contest

Honorable Mention

**13. Sometimes Parents Just Don't Understand!**

PreK – 2nd | Richland Room C

**Kelly Jackson & Kassi Tarlton**

Lake Carolina Elementary

Learn how to create parent help videos using the Seesaw application. We will provide you with training on creating videos, sending them and share parent feedback.

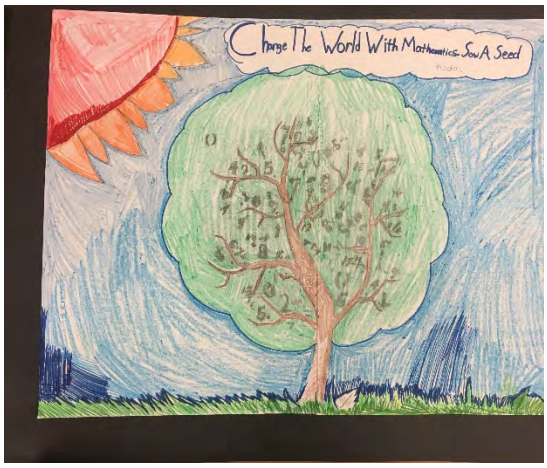
**14. What the Tech? - Implementing Technology Effectively in the Math Classroom**

6th –12th |Congaree Room A

**Christopher S. Thurman**

Charleston Magnet School for Math and Science

Learn some tips, tricks, and tools to help create a more meaningful technology integration in your math classroom.




SCCTM Poster Contest Winner


SCCTM Poster Contest Winner

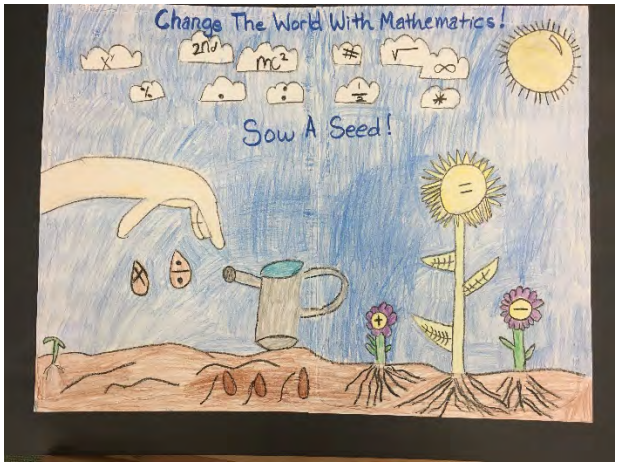
**15. Growing Each Learner in the Student-Centered Classroom**

6th –8th | Congaree Room

**Pamela Crim and Jennifer Byrd**

Gilbert Middle School

In our session we will share with you the intentional steps we have taken to create a student-centered classroom, growing each learner, by meeting their needs.




SCCTM Poster Contest Winner

**16. Motivate the Unmotivated Student with Differentiation on Your Side**

3rd –8th | Lexington B

**Laquantis Chevis**

Stepping Stones Services

Motivating students can be a difficult task. Let's come together with songs, dance and a flipped classroom model to learn ways to motivate the unmotivated student.

# 9:15 – 10:30 Keynote Address

## 17. Catalyzing Change: Identity, Agency, Positionality, and Equitable Instructional Practices

General | Ballroom A/B

**Robert Q. Berry III, NCTM President**

This session makes connections between equitable instructional practices and identity, agency and positionality. Specifically, the session uses a vignette to examine how high cognitively demanding task provide opportunities to engage learners in meaning discourse positioning learners as mathematically competent. The session uses mathematical discourse community as a framework for connecting mathematics norms of discourse to identity and agency. While this session highlights Catalyzing Change for High School Mathematics, the discussions of teaching practices that cultivate identity, agency, and positionality is appropriate for all educators.

**18. All Hands-on Deck**

3rd – 5th | Ballroom C

**Stephanie Bainbridge**

Box Cars and One-Eyed Jacks

Who knew playing with cards could be this much fun? Come prepared to play easily differentiated games that build concrete math skills and student success.

**19. Collaborative Ideas for Developing Productive Perseverance**

9th – 12th | Hall of Fame Room

**Margo Dye**

National Content Specialist

Houghton Mifflin Harcourt - HMH

Come learn and collaborate with colleagues to glean some great ideas for helping students develop metacognitive strategies and strengthen their productive perseverance.

**20. Using Algebra Nation with Fidelity: Differentiating to Meet the Needs of Multiple Students**

6th – 12th | Lincoln Room

**Amy Adams**

Algebra Nation

Participants will explore using inquiry-based resources to direct and tier instruction using the Algebra Nation resources.

**21. Sowing the Seeds of Math Workshop**

3rd – 8th | Senate Room

**Kimberly Caley**

Office of School Transformation for the SC Department of Education

Come learn how to set up and manage an effective math workshop! Participants will leave with ideas for workshop stations, incorporating feedback, and promoting collaboration.

**22. STEM: Connecting the Dots**

6th – 8th | Lexington Room A

**DeDee Quinn & Tracey Campbell**

S²TEM Centers SC

In middle school, classes are taught in silos or periods. How can you teach math application and still teach the standards? Through a design challenge, teachers will experience a simple STEM lesson and discuss how math teachers may plan with the other content teachers to enrich student learning.

**23. Math Running Records: The GPS of Math Fact Fluency**

PreK – 5th | Richland Room A

**Dr. Nicki Newton**

Newton Education Solutions

Math Running Records is an assessment system that helps us to unpack the basic fact fluency levels of k-5 learners.

**24. Red Rover! Red Rover! To Experience the Latest, Come on Over!**

6th – 12th | Richland Room B

**Vicki Carter**

West Florence High School

**Sherri Abel**

SC Department of Education

Have fun learning to code Rover to do your bidding using the TI-Innovator™ Hub and the TI-Nspire™ or TI-84+ handhelds!

**25. Let's Grow with Math!**
PreK – 5th | 26. Richland Room C
**Pam Bradley**
Kaplan Company
This interactive session will trace number sense, algebraic thinking, geometry and numerical patterns from Pre-K to grade 5. Classroom and assessment strategies will be stressed.

**26. Making Every Child a Mathlete**
6th – 8th | Congaree Room A
**Johanna Jezowski**
**&**
**Lorraine Jackman**
Dent Middle School
Want to get students off the bench and into the game? Come create an interactive notebook that can be used in your classroom tomorrow!

**27. Strategies Used to Promote Discourse in Mathematics Classrooms**
6th – 12th | Congaree Room B
**Mrs. Gerry Long**
CPM Educational Program
Participants will experience study team strategies that deal with discourse, work on math problems using these strategies, and see Mathematical Practices in each strategy.

# SCCTM FAQs

### Will presentation handouts be provided onsite?

As part of our continuing effort to "go green," all materials will be provided electronically when shared by individual speakers. No paper handouts, printing of materials, USBs or CDs will be available onsite unless provided by an individual speaker. We encourage you to download materials or pre-print materials before traveling. All handouts and slideshows that are provided to SCCTM by a speaker will be available via the Conference website. A link may be accessed after the conference.

### Where is the information desk?

General questions about the conference and the council can be answered at the SCCTM booth in the exhibit hall, at the Registration Desk, and in the conference headquarters/speaker and pages check in room.

### Where is lost and found?

Lost and found items may be turned over to the volunteers at the registration desk. When registration closes, any found items will then be sent to the conference headquarters room, which serves as the speaker and page check in room.

### How many professional development credits do I earn for each session?

CEU credits are 1 point for each 60 minutes. For example, 75 minutes = 1.25 CEU credits.

Participation on the Math Trail at Edventure is limited to twenty (20) attendees. Please register in advance of the conference to hold your place. There will be a waiting list available if more than twenty register. If enough attendees sign up and on the waiting list, another Math Trail session time will be scheduled for Friday morning.

# 28. Edventure Math Trail

3rd – 8th | Gallery Area (Under Escalator)

**Caitlin Dabkowski**

Alice Drive Middle School, Sumter School District

Experience Edventure through a mathematical perspective. Wear your walking shoes and be ready to venture out and do some math as a guest of Edventure.

**Register Here for the Math Trail**

## Math Trail Objectives

To improve students' ability to work together on mathematical problems.

To improve students' ability to communicate mathematical ideas.

To improve students' problem-solving ability by giving them an opportunity to create and solve their own problems.

To help students value mathematics by giving them an opportunity to discover its applications in the real world.

To develop students' interest in and respect for the community in which they live.

## Thursday, November 15th

## 9:30 - 10:30 Sessions

**29. Breakout EDU Re-Mix for Math Classes**

General | Carolina Room A

**Tabatha Brewer & Debbie Leonard**

Greenwood School District 50

Want to integrate BreakoutEDU games into your math classroom? Experience a short BreakoutEDU game that has been Re-mixed, scavenger hunt style. Get ideas for how to create engaging math BreakoutEDU puzzles that can be no tech, blended, or all digital. Come see how we set up BreakoutEDU where small groups collaborate and communicate while competing against each other in order to "Change the World and Sow a Seed".

**30. 100kin10 Listening Session**

General | Carolina Room B

**Jennifer Wilson**

Aiken High School

This is an opportunity to share your views on STEM education in your school/district with a national organization. 100kin10.org

**31. Amusement Park Math**

K – 5th | Gallery Area

(Under the Escalator)

**Sandra Ammons**

**Vanessa Burgos-Kelly**

**Amber Hedgpeth**

Education Associates for Mathematics

South Carolina Department of Education

Join us for some fun at the amusement park as we explore mathematical connections to games, lines, and rides. We will investigate ways to engage students at all grade levels in the Mathematical Process Standards.

SOUTH CAROLINA DEPARTMENT OF EDUCATION ed.sc.gov

# SCCTM FAQs

### What are the conference registration deadlines?

October 13 is the "early bird" registration deadline. Payment must be made online, by check, or purchase order and received by October 13 in order to be eligible for the "early bird" rate. Attendees may still register and pay the regular conference rate online beginning on October 14 through the final day of the conference.

### May I Register On-Site

Yes, you may register on site. The registration process is more efficient if the late registering attendee(s) already have their account(s) set up at: scctm.org (If you are current member, you already have an account. If you attended recently, you are in our contacts as long as your email address is the same.)

When registering or paying on site, please be sure that you have created your account before getting in line to make the process faster for you and others in line. You may pay online from your device at the conference. If turning in a school or district check, you may turn in your payment at the registration desk, receive your materials and your receipt will be mailed to you. If you have a purchase order, the same process will be used as for a check, but your district or school will be invoiced for your attendance after the conference is over.

### May my guest attend meeting functions and the evening reception?

No, due to insurance regulations, in order to attend the conference functions, participants must be registered for the conference.

**32. Support for Future Teachers**

College Students| Congaree Room A

**Bridget Coleman**

SCCTM Board Member

University of South Carolina at Aiken

Meet with your fellow college students discussing current issues, networking, and collaborating as upcoming mathematics teachers.

**33. Using Minecraft in the Classroom**

3rd – 5th | Ballroom C

**Tonya McCullough**

Clifdale Elementary

Spartanburg School District 3

I will share how to use the Minecraft game in the classroom to teach area, perimeter, and volume. Students learn these concepts by building building and the gardens in the game. I will show you how to make this a STEAM project for students.

**34. Classroom Misbehavior - The Bad Seed We Can Do Without Pre-K-12**

General | Hall of Fame Room

**Peter Vajda, Ph.D.**

Center for Teacher Effectiveness

Learn "8:00 Monday morning" research-based strategies of a fair and simple classroom management system that will eliminate unwanted behaviors by 70% or more. Learn the essential steps of teaching to expected behaviors and discover the benefits and the importance of positive interactions with your students

**35. Escaping the Traditional Classroom into a World of Adventure**

6th – 8th | Lincoln Room

**Sharon Cheek & Aretha Smith**

Ebenezer Middle School

Sumter School District

To enhance real-world mathematical reasoning, students need challenging and innovative activities to stimulate their learning. Utilizing “Escape the Classroom Activities,” this goal can be accomplished.

**36. Using Gazebos to Bridge the Classroom to the Real World**

9th – 12th | Carolina Room A

**John Hostetler**

Aiken High School

The focus of this presentation will consist of a unit plan for creating blueprints for gazebos and building a gazebo from the students created blueprints

**37. Catalyzing Change in High School Mathematics: Initiating Critical Conversations**

9th – 12th | Richland Room C

**Ed Dickey**

University of South Carolina

Learn about a new publication from NCTM that challenges teachers and leaders to redesign high school mathematics. Examine the required Essential Concepts and possible pathways.

**38. Sow a Seed – Teach Elementary / Middle School Teachers Measurement and do it hands-on.**

PreK – 8th | Carolina Room A

**Dr. Don Jordan**

University of South Carolina

The National Council of Teachers of Mathematics (NCTM) adopted the official position that (metric) should be taught as the "primary measurement system" in schools. Participants will have fun with hands on activities.

**39. Pump Up the Powerful Mathematical Practices**

6th – 12th | Gallery Area (Under the Escalator)

**Lori Ricard & Huger Caughman**

Newberry County Schools

This session will demonstrate an engaging strategy to promote problem-solving activities in collaborative groups where students take the lead and the teacher serves as a facilitator.

## Thursday, November 15th

**40. Exploring Math Concepts with Games and Manipulatives**

General | Ballroom A/B

**Heidi Schuler-Jones**

MUGGINS MATH!

Explore number and operation sense, composing and decomposing numbers, and patterning of numbers with area by using our original math games and manipulatives.

**41. K-2 Number Sense & Counting Collections**

PreK – 2 | Senate Room

**Cathy DeMers**

Charleston County Schools

What is "Number Sense?" Cardinality, Subitizing, Hierarchical Inclusion, Compensation, Counting On, Unitizing, and Conservation of Number.

**42. Using the TI-Nspire in the Middle School Classroom**

6th – 8th | Carolina Room B

**Rachael Elizabeth Smilowitz**

Charleston County Schools

This session will give teachers the basics of the TI-Nspire calculator and how to use it in their classroom to enhance understanding.

**43. Math in Action: Building a Pen and House for Puppy**

3rd – 5th | Lexington Room A

**Dorothy Earle & Margaret Lorimer**

S²TEM Centers SC

This session integrates math, science, and engineering. Participants will walk away with an engaging lesson with a real-world connection. It supports students' creativity and mathematical understanding.

## 10:45 – 12:00 Sessions

**44. EdVenture's Math Game**

K – 6th | Lexington Room B

**Elena Tudor, Museum Educator**

**Edventure**

Participants will engage in some of EdVenture's most popular math programs that can be brought to your school. This session will focus on how our educators present STEM based, hands-on learning in a way that is sure to make an impact in *your* classroom.

**45. Developing Mathematical Roots: Promoting a Mathematics Culture Across the Curriculum**

PreK – 6th | Richland Room A

**Jennifer Jolly & Casey Davis**

Riverview Elementary School

Join us for an interactive, strategy-packed session to learn how to plant mathematical seeds across the curriculum that will yield deeply rooted mathematical thinkers.

**46. How Moody are You?**

6th – 12th | Richland Room B

**Vicki Carter**

West Florence High School

**Sherri Abel**

State Department of Education

Participants will use the TI-Innovator™ Hub, TI-Nspire™ or TI-84+ handhelds, and temperature sensors to code their own mood rings. It'll be a blast from the past!

## Thursday, November 15th

agile Mind® 11:00 – 12:00

**Exhibit Hall Classroom Workshop**

**47. Teaching Through Game Play**

9th – 12th | Congaree Room B

**Trynee Thomas**

**Nnenna Anoruo**

Students in secondary classrooms can learn math through movement and game play. In this session we will provide and demonstrate an abundance of games and activities used in our classrooms to get students out of their desks by using methods of organized chaos. Participants in this interactive session will leave with activities and games that can immediately be implemented in their own classes.

**48. The Power of Virtual Manipulatives**

PreK – 8th | Carolina Room B

**Ryan Dougherty**

ETA Hand to Mind

Are virtual manipulatives as good as the real thing? Would you like to have an unlimited supply of manipulatives that your kids can use anywhere? Come learn the answers to these and many other questions about virtual manipulatives.

## 11:00 – 12:00 Workshop
## 12:15 – 1:15 Sessions

# SCCTM FAQs

### Are meals included with my registration?

Lunch vouchers will be provided and are included as part of your registration fee. There will be a Wednesday reception. There is also a reception on Thursday afternoon.

### Will there be a printed conference program book provided?

As part of our continuing effort to "go green," SCCTM will no longer provide printed conference program booklets. The conference program book will be available in an HTML5 "flipbook" format which may be accessed from our website, can be viewed on any internet connected device, and the pages will be turn-able, as with a book or a magazine. The program book may also be downloaded in a pdf version for viewing or printing. We encourage you to download materials or pre-print materials before traveling.

### Conference Registration Cancellation Procedure?

Refunds of any registration fees paid will be based upon the SCCTM refund policy. Please access that document here: Refund Policy

## Thursday, November 15th

**49. Embracing the Present to Own your Future**

General | Ballroom A/B

**Felicia Goodwin**

**& Christine Buchanan**

Summit Parkway Middle School

Raising student awareness and closing gaps using Statistical analysis of standardized test scores by creating websites and electronic data notebooks.

**50. Rolling on Fact Fluency Grades 3-5**

3rd – 5th | Ballroom C

**Stephanie Bainbridge**

Box Cars and One-Eyed Jacks

Rock and roll! Come ready to play dice games that can be used to teach basic facts, operations, number sense and place value.

**51. Continuing the Conversation Beyond the First Raised Hand**

3rd – 12th | Hall of Fame Room

**Pamela Richards**

Houghton Mifflin Harcourt – HMH

Complex knowledge is learned through social interaction. Come experience strategies for facilitating rich mathematical conversations through focus on sequencing student work to promote discussions.

**52. Using Algebra Tiles from Polynomials to Completing the Square**

6th – 12th | Lincoln Room

**Tim Scripko**

College Preparatory Math

Participants will learn how to use Algebra tiles to make Algebra into a concrete visual experience for your students.

## 12:15 – 1:15 Sessions

**53. Next Generation Numbers**

K – 2nd | Senate Room

**Katlyn Boyter**

Reidville Elementary School

**Haley Snow**

Spartanburg District 5

Using technology to enhance math in the early childhood classroom. How to share and create activities and ways incorporate them daily.

**54. "Math the Unsinkable"**

6th – 8th | Carolina Room A

**Carrie Simpson**

Robert Anderson Middle School

Learn how to incorporate projects based on The Titanic into your middle level math class!

**55. Maker Education 101**

General | Lexington Room B

**Elena Tudor &**

**Kaseena Jackson, Principal**

Langford Road Elementary School

Participants will learn of an elementary school's partnership with EdVenture to implement a Maker Space. This session will share ideas to enhance STEAM-based, hands-on learning in a way that is sure to make an impact in *your* classroom.

**56. Guided Math in Action**

PreK – 5th | Richland Room A

**Roberta Newton**

Newton Education Solutions

Come learn how to form, teach and assess small guided math groups.

## Thursday, November 15th

**57. Red Light! Green Light!**

6th – 8th | Richland Room B

**Vicki Carter**

West Florence High School

**Sherri Abel**

SC Department of Education

Using the TI-Innovator™ Hub and TI-Nspire™ or TI-84+ handhelds, participants will create a stop light and a back-up sensor. Come prepared to have fun!

**58. Increasing Engagement through Collaboration and Rich-Problem Solving**

9th – 12th | Richland Room C

**Jim deBerjeois**

Big Ideas Learning

Are you looking for ways to increase student engagement and collaboration in your math classroom? Are you frustrated with students not participating, while the same students are always coming up with the solutions? This session focuses on fostering deep mathematical thinking in the classroom through collaborative problem-solving, discourse, and engagement in the mathematical practices. Leave this session with a bank of tools and strategies to promote collaboration and engagement with minimal prep time!

## 12:15 – 1:15 Sessions

**59. Seriously Fun Mathematics with Cards**

3rd – 5th | Congaree Room A

**Carolyn Hirst-Loucks & Kim P. Loucks**

Teaching and Learning Connected

Deal yourself in and join us as we explore a number of different mathematical concepts. Play your cards right and you'll be able to keep your students (and YOU!) interested, engaged and learning.

### SCCTM Anti-Harassment Policy

The South Carolina Council of Teachers of Mathematics (SCCTM) strives to provide a safe and welcoming conference and meeting environment, free from bias and intimidation for all members and participants. SCCTM has a zero-tolerance policy toward discrimination and all forms of harassment, including but not limited to sexual harassment. No form of discriminatory or harassing conduct by or towards any member, staff, speaker, attendee, vendor, volunteer or other person at SCCTM meetings, conferences, or workshops will be tolerated. SCCTM is committed to enforcing its policy at all levels within the council. Anyone who engages in prohibited discrimination or harassment will be subject to discipline, including warning the offender, up to and including expulsion from current and/or future conferences, meetings, or workshops and revocation of membership in the math council. No refunds will be granted to any attendee expelled from an SCCTM Conference, meeting, or workshop due to violations of this policy. Instances of harassment should be brought to the attention of the SCCTM Executive Director and/or SCCTM President, who will then meet and consult with other executive officers regarding a course of action. If you are being harassed, witness harassment, or have any other concerns, please contact a member of SCCTM Board immediately by visiting the registration desk or the headquarters room at the conference.

# Thursday, November 15th

### 12:30 – 1:45 PM SESSION

**60. Wake Up Active Learning in the Mathematics Classroom**

9th – 12th | Lexington Room A

**Tracey Campbell**
**Terrie Dew**
S²TEM Centers SC

Tired of students who would rather sleep than learn math? Participants will learn ten strategies for engaging students in learning mathematics through dialogue, movement, and teamwork.

### 1:45 – 2:45 SESSIONS

**61. Making a Gingerbread Village in the Math Class**

3rd 8th | Ballroom C

**Tonya McCullough**
Clifdale Elementary
Spartanburg School District 3

Learn how students built a gingerbread village to learn geometry big ideas: area, perimeter, volume, as well as how to incorporate social studies and ELA standards. This STEAM project is a fun way for students to learn these concepts and to connect with students from around the globe using Skype, Flipgrid, and Padlet. Hear about how we met with classes as far away as the Netherlands and Lithuania.

**62. It's Not Right, But It's Okay: Errors as Opportunities in Math** 6th – 12th | Hall of Fame Room

**Brad Fountain**
Discovery Education

The teaching was on par, but the learning . . . well, it fell short. But it's OK! Use student errors and misconceptions as opportunities for learning.

# 12:30 – 1:45 Session
# 1:45 – 2:45 Sessions

**63. SmART Math**

3rd – 5th | Lincoln Room

**Melody Oliver Powell**
Stone Academy
of Communication Arts

Are your global students struggling with attaining your mathematical standards? Introduce ART into your math classroom and see a transformation take place.

**64. Using visual patterns to introduce Linear Functions**

7th – 10th | Congaree Room B

**Lee Cory**
R.C. Edwards Middle School

Participants will use visual patterns to represent a linear function in four ways (visually, graphically, in tabular form, and symbolically). This approach helps students understand the meaning behind the ideas of constant rate of change and y-intercept, as well as how to create a linear equation from a table or graph. Appropriate for Algebra I as well as regular 8th grade math and inclusion students.

**65. Breakout of the Routine Reviews in Math Class!**

9th – 12th | Gallery Area (Under Escalator)

**Amber Hedgpeth**
Education Associate
South Carolina Department of Education

In this session, participants will learn how to incorporate digital escape games into their math courses. Participants will escape from a digital breakout room demonstration and learn tips and tricks for creating a digital breakout room for their students. Participants will see how breakout games address many of the Mathematical Process Standards. Digital breakouts can be designed for any grade level and at varying levels of complexity, making this session appropriate for all audiences.

# 1:45 – 3:00 Keynote Address

## 66. Using Learning Intentions and Success Criteria to Improve Teacher Clarity

General | Ballroom A/B

## Dr. Laurie Boswell

Using Learning Intentions and Success Criteria to Improve Teacher Clarity Teacher clarity has a 0.75 effect size on student learning (Hattie, 2015) and it begins with clearly communicating learning intentions and success criteria. Laurie will unpack some of the theory, research and high effect size of using the structure of observed learning outcomes (SOLO) framework to support teaching and learning. Classroom examples bring clarity to writing and using learning intentions and success criteria. Learn how a small change in your practice can have a huge impact on student learning.

BIG IDEAS LEARNING

## Thursday, November 15th

### 67. Juggling the Hippos

PreK – 5th | Senate Room

**Dr. Felicia Sawyer**
**Dr. Darlene Cantey**
**Angelia Furnace**

Entering into the field of education can be rewarding, but yet challenging. Beginning teachers must learn state standards; find resources; and implement effective math strategies that meet the needs of a diverse population. Attaining interesting and effective resources to implement into lesson plans, along with maintaining data and differentiating instruction, are crucial or key elements to the success and academic progress of students.

### 68. Geometry Playground

6th – 8th | Carolina Room A

**Lorraine Jackman**
**Johanna Jezowski**

Dent Middle School

Teachers will explore innovative ways to capture middle school students minds with geometric concepts exploring the range from low-tech to high tech using TI-Nspire CX calculators.

### 69. Making Algebra Child's Play

3rd – 8th | Lexington Room B

**Darlene Williford**

Borenson and Associates, Inc.

Learn how a visual and kinesthetic approach to teaching algebraic concepts enables students to grasp "sophisticated" looking concepts of linear algebra. Get a taste of the new Hands-On Equations Fractions. Attendees will receive a student set of Hands-On Equations.

## 1:45 – 3:00 Sessions

### 70. Best Practices for Engaging 21st Century Learners

PreK – 2nd| Richland Room A

**Linda Schmidt**
**Amy Moore**

Spartanburg Community College

Come for a fun, interactive session designed for educators who want to connect with the next wave of 21st century students. Attendees will also be given some "best practices" to promote active learning.

### 71. Please Don't Stop the Music!

6th – 12th | Richland Room B

**Vicki Carter**

West Florence High School

**Sherri Abel**

SC Department of Education

Using the TI-Innovator ™ Hub and TI-Nspire™ or TI-84+ handhelds, participants will code the music for some well-known songs. Come prepared to rock it out!

### 72. Connecting the Dots - Primary Domino Games

PreK – 2nd | Richland Room C

**Lori Triplett**

Come prepared to play games that use double 6 dominoes that teach: operations, place value, patterns and graphing. Gameboards, student samples and ideas for math journals will be shared.

### 73. Are We REALLY Having Fun in Math?

6th – 8th | Congaree Room A

**Jill Lee, Shelby Rood, & Amanda McGhee**

Blythewood Middle School

Are you looking for new ideas to promote student collaboration and make learning fun? This session will show different methods to engage and assess students.

# Thursday, November 15th

# 2:15 – 3:15 Session

### 2:00 – 3:15 SESSION

**74. Number Talks**

K – 5th | Lexington Room A

**Margaret Lorimer**
**Dorothy Earle**
S²TEM Centers SC

Participants will learn how to use number talks to strengthen accuracy, efficiency, and flexibility with computation strategies.

### 2:15 – 3:15 SESSION

**75. A Single Math Problem Becomes a "seed" to explore Rich Ramifications in Diverse Areas**

General | Carolina Room B

**Dr. Charles Hatch**
Newberry College

I will explore the many facets of a single mathematics problem in order to gain rich insights and find productive avenues for change.

### 3:15 – 4:15 SESSIONS

**76. Get Started with Blended Learning**

6th – 8th | Hall of Fame Room

**Natalie House**
E. L. Wright Middle School

Learn strategies to help students become responsible for their own learning while mastering concepts at their own pace.

# 2:00 – 3:15 Session

# 3:15- 4:15 Sessions

### 3:15 – 4:15 SESSIONS

**77. Mathematical Modeling: Engage your reluctant learners!**

9th – 12th | Congaree Room A

**Ken Orgain, Math Specialist**
Pearson

Dive into various unique modeling lessons that present engaging, high-interest situations. Unlike traditional real-world problems, reality-based Mathematical Modeling lessons present students with the modeling conceptual category. Our mathematics standards require that students address identifying essential variables in a situation, formulating a model from those variables, performing operations using the model, interpreting the results of those operations, and validating the conclusions of those results.

**78.** Speaking and Listening Mathematically

K – 5th | Gallery Area (Under Escalator)

**Vanessa Burgos-Kelly**
Education Associate
South Carolina Department of Education

You have to speak, listen, read, and write to teach and learn Math. Numeracy is essential for decision making as critical thinkers. Find out how to foster classroom environments that use rich mathematical discourse as a powerful tool to maximize student application of mathematical processes.

**79. Deepening Questioning to Increase Student Mastery of Content Area Learning Targets**

3rd – 12th | Carolina Room A

**Kimberly Jeter**
Longleaf Middle, Richland 2

Participants will receive a valuable HOT question design matrix as well as experience how instructional technology site; Flipgrid can be used to assess students' mastery.

**80. Math Workshop: It's not just for lower grades**

3rd – 8th | Ballroom C

**Tonya McCullough**

Clifdale Elementary, Spartanburg School District 3

How to run a smooth math workshop for upper grades. escapingescapI will share how I make my schedule, small groups, and how I keep my students engaged throughout the math workshop time.

**81. Cultivating Mathematicians through Math Talk**

PreK – 2nd | Lincoln Room

**Dr. Cindy Washington**

Richland School District One

Classroom discussions help to deepen student's mathematical understanding. Come and experience strategies for incorporating best talk practices in the Early Childhood Classroom.

**82. The "Knows" of Dominoes and Pentominoes**

3rd – 5th | Senate Room

**Leigh Ann Buckner**

Midway Elementary School

In this presentation, you will learn how to use dominoes and pentominoes in your math class to enhance the teaching of fractions, area, and perimeter.

**83. EdVenture presents Book Tasting**

General | Lexington B

**SCCTM Board Members**

Participants will engage in a series of activities designed introduce them to a collection of professional math books. Great way to build understanding our effective practices and our need to exercise our minds and enhance our mathematical connections.

**84. Primary Math Clubs**

PreK – 2nd | Richland Room A

**Lori Triplett**

Come and play our students' favorite math games that we used in our before and after school math clubs. Activities are great for multiple ability levels, as well as centers in your classrooms. Concepts: fact fluency, number sense, and place value.

**85. STEM Activities: Use the TI-Innovator™ Rover to Plot a Path to Growth for All Students**

6th – 12th | Richland Room B

**Betty Gasque**

Sow a seed for student growth with exciting STEM activities. We'll explore how the Rover can connect mathematics concepts, motivate discourse, and grow powerful students.

**86. "Warming Up" Your Number Sense"**

PreK – 5th | Richland Room C

**Tami Broomall**

Spartanburg District 6

What's the best way to engage students? Start with a Bang! We'll explore warm-up routines that simultaneously motivate students and build number sense.

**87. Sowing the Seed of Mathematical Thinking: The Power of Making Connections**

9th – 12th | Congaree Room B

**Sharon K. O'Kelley**

Francis Marion University

Focusing on Geometry, we will discuss how making connections helps students practice mathematical thinking, a key component in developing the life skill of effective reasoning.

## Thursday, November 15th 3:30 – 4:30 Sessions

## Business Meeting, Awards, Reception, Door Prizes 4:45

### 3:30 – 4:30 Sessions

**88. Investigation: What Does Being World Class really mean? How Might We Change to Get There?**

General | Carolina B

**Dr. Charles Hatch**

Newberry College

What does being "World Class" entail? What are the current mathematics characteristics and how might we regain ground lost in the past few decades?

**89. Putting the Pieces Together**

3rd – 5th | Lexington A

**DeDee Quinn**

**Pamela Brice**

S²TEM Centers SC

Participants will examine the standards of multiple grade levels and content areas to fit the pieces of the puzzle together to create a complete picture of learning.

### 4:45

**90. SCCTM Annual Business Meeting, Awards, Door Prizes, and Reception**

General | Ballroom A/B

**SCCTM Board Members**

Enter the drawing for fabulous door prizes by depositing the door prize ticket that came with your registration name badge as you enter the business meeting. You must be an SCCTM member to enter and you must be present to win.



**91. Homework with a Purpose**

3rd - 12th | Ballroom A/B

**Lee Gosnell**

**D. R. Hill Middle School**

**Spartanburg District 5**

How do you grade homework? This approach to homework differentiates assignments, yet still ensures students are mastering the content.

**92. Your School Garden PBL**

6th – 8th | Ballroom C

**Marie Darstein**

RP Dawkins Middle School

This session will focus on planning your school garden & supplemental lessons using PBL format.

**93. Khan Academy**

General | Hall of Fame Room

**Megan Wickline**

Marrington Middle School of the Arts

Ambassador led training to successfully start using and implement Khan Academy in the math classroom.

**94. Less is More Approach to Conceptual Learning and Inquiry**

6th – 12th | Lincoln Room

**Joanna Myles**

Easley High School

In this workshop, we will focus on using Dan Meyer's 3 Act Math, Desmos, and inquiry activities to give meaning to procedures through conceptual connections.

**95. You're the difference...Don't be the one that didn't try!**

**Dr. Alicia D McCree**

Center for Teacher Effectiveness

3rd - 12th | Senate Room

Imagine a classroom where students respond to your request the first time. Where the non-compliant student learns to self-correct inappropriate behavior. Wouldn't it be great if you could stop spending so much time on correcting low-level behaviors and more time doing what you love…teaching? There is a simple solution, and it's not one that involves trendy gimmicks or paying a student to behave. It simply involves clear communication and expectations. Eliminate the repeated warnings and requests. The techniques provided will increase the time you spend on academics while at the same time empowering your students to take responsibility for their actions and achieve success. Learn the secret to creating a smooth operating classroom where the teacher can teach and the students learn.

**96. The Mathematics of Secret Messages**

9th – 12th | Carolina Room A

**Matthew Neal**

Fort Dorchester High School

Explore the math behind the ciphers used to keep information secret from the days of Caesar to present day.

# Friday, November 16th

# 8:00 – 9:00 Sessions

**97. Is Equal Groupings It? Choose Your Own Pathway for Multiplication Using Tools, Models, and Strategies**

3rd – 5th | Carolina Room B

**Christine King**

CKingEducation

Repeated addition. Equal groupings. Distributive property. Teaching multiplication should not be string of ways to solve problem with leaps from one strategy to the next. This presentation outlines tools, models, and strategies to help teachers identify and choose appropriate pathways based upon where students are, opposed to where the textbook is.

**98. What is STEAM?**

K – 12th | Lexington Room A

**Terrie Dew & Dorothy Earle**

S²TEM Centers SC

Participants will experience an integrated mini-lesson to develop a shared definition of STEAM teaching and learning. Come learn strategies for integrating science, technology, engineering and arts into your mathematics lessons.

**99. MakerSpace and Inclusion: A Nontraditional Approach**

General | Lexington Room B

**Cynthia Johnson**

Longleaf Middle School

**Pamela Davis**

Westwood High School

Two educators with two different Maker Spaces empower all students to innovate, create and make, dispelling the myth of who gets to engage in STEM activities, lessons and units. Come learn about their journey into Maker Education and how they provide opportunities for all students to go through the design thinking process in these maker spaces.

**100. The Magic of Engagement!**

K – 5th | Richland Room A

**Carin Sease & Dana Hutto**

Cayce Elementary School

This session will take the standards for our K-5 students and show how engaging lessons that create magic around math increases achievement.

**101. Trouble factoring? Box it!**

9th – 12th | Richland Room B

**Sherry Young**

West Florence High School

Through using the master product, factoring a trinomial becomes easy as the box method takes out the guesswork. Students have a built-in method for checking their work. This method works extremely well for struggling students.

# Friday, November 16th

## 8:00 – 9:00 Sessions

**102. Engagement, Persistence and Academic Success Using Technology**

6th – 12th | Richland Room C

**Dr. Massie McAdoo**

Agile Mind

Join us as we explore classroom tools and resources that empower mathematics educators and learners to do the work of teaching and learning mathematics more effectively.

**103. New Teacher Meeting (Years 1-3)**

9th –12th | Congaree Room A

**Kelsey Leonard**

D. W. Dhelpaniel High School

Join us as we discuss the challenges and joys of the first three years of teaching mathematics.

**104. Common Assessments and So Much More: Collaboration Among Algebra 2 Teachers**

9th –12th | Congaree Room B

**Sarah Day & Jenny Van Buren**

Powdersville High School

Algebra 2 teachers within the same school will share how they empower each other and increase student success through collaboration focusing on examining and prioritizing the mathematics content students are to learn, building common assessments, sharing teaching strategies and ideas, and reflecting on practices and outcomes.

## 9:15 – 10:15 Session

**105. Help me, help you. Getting students to go beyond "IDK"**

General | Lexington B

**Chris Higgins**

South Carolina Connections Academy

**Ryan Higgins**

Coker College and SCCTM Board

IDK does not cut it. We will share methods for helping students specify where they are stuck and communicate more effectively in mathematics.


**Will there be a printed conference program book provided?**

As part of our continuing effort to "go green," SCCTM will no longer provide printed conference program booklets. The conference program book will be available in an HTML5 "flipbook" format which may be accessed from our website, can be viewed on any internet connected device, and the pages will be turn able, as with a book or a magazine. The program book may also be downloaded in a pdf version for viewing or printing. We encourage you to download materials or pre-print materials before traveling.

# 9:15 – 10:30 Keynote Address

## 106. Advocating for High Quality Math Instruction: Effectively Responding to Critics

General | Ballroom A/B

**Dr. Matt Larson**

Past-President, NCTM; Senior Fellow, Math Solutions, Houghton, Mifflin, Harcourt

The issues and arguments concerning what and how to teach mathematics today are as old as the United States itself. If we are to make progress improving the mathematics learning of each and every student we must stop recycling the same old. This session will engage participants in exploring implications from the past for our work today as we create learning opportunities for each and every student and effectively communicate to parents and the public what meaningful mathematics learning looks like today and why it is important.

Houghton Mifflin Harcourt™

# Friday, November 16th

# 9:15 – 10:30 Sessions

**107. Mathcation- Take A Vacation From the Same Old Math Routine!**

6th – 8th | Ballroom C

**Stephanie Bainbridge**

Box Cars and One-Eyed Jacks

Help students unlock their potential and get rid of math anxiety by using regular cards and dice to teach fun, educational and differentiated math games.

**108. To Proficiency & Beyond, A Strategic Approach to Addition and Subtraction**

PreK – 2nd | Hall of Fame Room

**Sandy Szako**

ORIGO Education

Support students' understanding of addition/subtraction fluency strategies necessary for Number Talks beginning with number facts and broadening to greater numbers including classroom activities

**109. Forward Thinking, Teaching and Learning (FTTL)**

6th – 12th | Lincoln Room

**William R. (Bobby) Cue**
**Gloria Allen**

USC Aiken Professional Learning and New Horizons Foundation Inc.

Inquiry-based learning of mathematics and science concepts in a digital-based society, integrating effective use of technological pedagogical content knowledge.

**110. Getting Groovy with Guided Math**

3rd – 5th | Carolina Room B

**Daniele Szynal & Madi Rewis**

Oakview Elementary

Interested in teaching Guided Math but not sure where or how to start? We will walk you through how to manage and schedule math groups.

**111. Grid Games: Gamification of the Math Classroom**

3rd – 8th | Carolina Room B

**Christine King**

CKingEducation

Gamification of the math class shows teachers how they can easily (and inexpensively) use grid game structures to support the development of math skills and concepts across domains, while promoting discourse, collaboration and engagement. If you would like to learn how to move beyond the worksheet and still help your students become more proficient, while being engaged in math, then learn how to gamify your classroom.

**112. Wake Up! Active Learning in the Mathematics Classroom**

6th – 8th | Lexington Room A

**Tracey Campbell**
**Terrie Dew**

S²TEM Centers SC

Tired of students who would rather sleep than learn math? Participants will learn ten strategies for engaging students in learning mathematics through dialogue, movement, and teamwork.

# Friday, November 16th

**113. Best Practices for Engaging 21st Century Learners**

6th – 12th | Richland Room A

**Linda Schmidt**
**Amy Moore**
Spartanburg Community College

Come for a fun, interactive session designed for educators who want to connect with the next wave of 21st century students. Attendees will also be given some "best practices" to promote active learning.

**114. Making the Most of Meaningful Models**

K – 5th | Richland Room B

**James Burnett**
ORIGO Education

Versatile models help teachers to articulate topics across elementary grades. Participants will discover practical activities using number lines, dot arrays, and area representations that can be used to teach major ideas involving basic facts, whole numbers, fractions, decimals, and computation strategies with deep conceptual understanding

**115. Launching Algebraic Thinking Using One-to-One Technology**

9th – 12th | Richland Room C

**Paula Adams**
Clemson University

You'll walk away with algebra activities linked directly to SC mathematics standards and ready for implementation in your classroom.

# 9:15 – 10:30 Sessions

**116. The Portrait of a "College-Ready Math Student": Conversations about Transitions**

6th – College | Congaree Room A

**Meredith Love & Kathy McCoy**
Francis Marion University
**Alisa Hobgood**
West Florence High School

This session will offer an overview of the research on mathematics readiness and will engage participants in a discussion about how to best develop both the knowledge and the habits of mind needed to be successful in college-level mathematics.

**117. Little Stuff, Big Effect. Increasing Student Interest**

9th – College | Congaree Room B

**George E. Schnibben**
Francis Marion University

Why is it called a Radian? How are airports numbered? Why do we use x for the variable? How to grab students' attention.

# 9:15 – 11:45 Mini-Course

**118. Effectively Using Algebra Tiles in Middle Level Mathematics Classes**

6th – 8th | Senate Room

**Jennifer Wise**
Albert Einstein Distinguished Educator Fellowship

Participants will take part in an interactive session highlighting various uses of algebra tiles that are designed to develop deep conceptual understanding among students.

**119. EOCEP Release Items and Updates**

9th – 12th | Gallery Area (Under Escalator)

**Daniel Cammisa**

Education Associate

South Carolina Department of Education

Teachers will discuss release items and hear updates from the South Carolina Department of Education Office of Assessment.

**120. Flight Camp for Teachers**

General | Lexington Room B

**Denise Duke**

Technology Learning Coach

Forest Lake Elementary

NASA Explorer School

Teachers will share their experience in this summer's Flight Camp, NASA resource, flight activities, and the many ways to incorporate flight in the math class. Teachers will leave with resources, ideas, and activities that will help students soar and families know more about the tremendous impact aeronautics has on our state's economy.

**121. Maximizing High School Technology for Math Courses**

9th – 12th | Ballroom A/B

**Thom O'Brien**

Explore Learning

Technology has changed classrooms. Online, interactive math simulations allow students to take problems, change variables, evaluate outcomes, and have opportunity to truly understand the outcomes.

**122. Connecting Children's Literature with Middle Grades Math**

6th – 8th | Ballroom C

**Candice Brucke**

West-Oak Middle School

Oconee County

Need to put a new spin on difficult concepts (i.e. surface area)? Join the fun and learn how to incorporate popular children's literature into your math class and address CCR. Lesson plans, rubrics, door prizes, laughter, and more!

**123. To Proficiency & Beyond, A Strategic Approach to Addition and Subtraction**

3rd – 5th | Hall of Fame Room

**Sandy Szako**

ORIGO Education

Support students' understanding of addition/subtraction fluency strategies necessary for Number Talks beginning with number facts and broadening to greater numbers including classroom activities and games.

**124. Tips, Tricks and Tools to Survive in a Middle School Math Classroom**

6th – 8th | Lincoln Room

**Tresa Milligan-Muller & Brenna Heiler**

Kelly Mill Middle School

Beginning teachers often face challenges with classroom management. We will discuss strategies on how to structure your class in order to help your year go smoother than expected for you and your students.

**125. You Used to Solve Me on My Mobile**

6th – 12th | Carolina Room A

**Bailey Knapp & Reagan Chase**

Clemson University Students

Join us as we lead students to solve equations while having fun (and maybe without them realizing it) with the technology provided by SolveMe Mobiles.

**126. Relationships between the Volumes of Cylinders, Cones, and Spheres**

6th – 8th | Carolina Room B

**Wendy Parker-Powell**

Blythewood Academy

Participants will engage in a mathematical task that will help their students develop the relationships between the volumes of cylinders, cones, and prisms using only the volume of a cylinder.

**127. One mighty seed: The Practice of Teaching using Student Teams**

General | Congaree Room A

**Larry Fetterly & Jerry Marshall**

Tri-County Technical College

This presentation will promote the values of collaboration and teamwork in the teaching of mathematics. It will make explicit connections to the Profile of the South Carolina Graduate. There will be time allocated to a participants' hands-on activity using pendulums in teams of 3-5 members that can be replicated with students of all ages. In addition, Larry Fetterly will share some of his experiences of teaching technical math in teams at Tri-County Technical College.

**128. Survive and Thrive the First Year**

General | Congaree Room B

**Savannah Roberts & Sydney Ford**

Beck Academy, Greenville

We made it through our first year! First year teachers, we want to give you some tips and tricks that we learned. Mentors, we will share some insight into what your first-year teachers might be wondering but are not asking.


## What is the attire for the conference?

The dress code for the conference is casual. Meeting room temperatures will vary, so wear layered clothing to ensure your personal comfort. We also recommend comfortable shoes.

## Where is lost and found?

Lost and found items may be turned over to the volunteers at the registration desk. When registration closes, any found items will then be sent to the conference headquarters room, which serves as the speaker and page check in room.

# Friday, November 16th

**129. STEM: Math is the Connection**

3rd – 5th | Lexington Room A

**DeDee Quinn**

**Margaret Lorimer**

S²TEM Centers SC

Math is the language of the other disciplines in STEM. As educators we need to ensure we are talking the language of Math and demonstrating the application of math in other disciplines. As a math teacher you should be aware of these connections and seek to find these connections to make learning in your classroom relevant for the students.

**130. TI-Rover Robot Teaches Geometry in Middle School!**

6th – 8th | Richland Room B

**Kathleen Traylor**

Charleston County Schools

Angles! Polygons! Action! See how a TI-84 or Nspire, connected to a Rover robot, lets students discover geometry and other math concepts!

**131. Changing the Way that We Teach Adding and Subtracting Rational Expressions: A Venn Diagram Approach**

9th – 12th | Richland Room C

**Jenny Van Buren**

Anderson School District 1

Explore a systematic way to assist students with finding the least common denominator using Venn Diagrams. Ready to use classroom resources will be provided!

# 10:30 – 12:00 Sessions


**What are the benefits of SCCTM membership?**

Current members receive a greatly reduced conference rate. Only members are eligible for the conference door prize drawings. Members receive news blasts and newsletters via email. Active members of SCCTM receive online subscriptions to The MathMate as part of their memberships.

**When do memberships expire?**

On- year memberships expire at midnight on September 30 of each year.

**How do I obtain a membership card?**

Your membership card can be viewed and printed from your account at scctm.org.

**Membership Information**

registration@scctmconference.org

**132. Total Participation Techniques**

3rd – 8th | Ballroom C

**Candice Brucke**

West-Oak Middle School

Oconee County

Participants will learn how to implement field-tested techniques they can use on the spot (quick-draws, quick writes, chalkboard splash); with Hold-Up cards (True/Not True, Selected Response); with movement (bounce cards, line-ups, simulations); and to guide note-taking and concept analysis (Picture notes, 2-sentence wrap-up, debate team carousel).

**133. Triangles on Triangles**

9th – 12th | Congaree Room B

**Katherine Armstrong, Emma Claire King, & Lauren Humphrey**

Clemson University Students

Join us in an inquiry-based lesson that explores the recursive patterns of triangles through the use of technology such as Desmos and online pattern blocks.

**134. Teaching and Assessing Math in a Digital World**

6th – 12th | Hall of Fame Room

**Brad Fountain**

Discovery Education

This session will focus on practical instructional strategies and a variety of digital tools that classroom teachers can use to help students become deeper mathematical problem solvers.

**135. Math in Motion**

6th – 12th | Lincoln Room

**Jill Woodruff**

Math by Woodruff

Keep them moving with these engaging activities that will ignite the interest of even the most reluctant student.

**136. Teaching and Assessing Using Inquiry Based Learning**

6th – 12th | Carolina Room B

**Charlotte Ihme**

Greenville Technical Charter High School

This session will focus on how to teach and assess your students using inquiry-based learning methods and provide student choice in your lessons.

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# Friday, November 16th

## 12:00 – 1:15 Sessions

## 12:15 – 1:15 Sessions

**137. OMG! MATH!**

3rd – 12th | Senate Room

**Rhonda Davis**

Outstanding Mastery Guides

Come see how graphic organizers can transform your class! Make an Outstanding Math Guide (OMG) containing graphic organizers with steps, examples, and vocabulary for every key concept taught throughout the year. This creative guide offers students a quick reference that will put the year's curriculum at their fingertips! The OMG will transform your classroom and help you introduce or review material in a way that is fun and exciting for students! You must see it to believe it!

**138. Early Learning and Mathematics**

PreK – 2nd | Lexington Room B

**Robin McCants**

Director of Extended Learning

EdVenture

EDUCATION. EVERYONE.

This session will share an overview of ways to promote early math skill development with families, discussing ways to encourage learning, and why developing a love for mathematics at an early age is so important.

**139. Grow ALL Students Through Math Workshop in a Secondary Classroom**

6th – 12th | Richland Room A

**Nichole Criminger**

**Hilary Morgan**

Carolina Springs Middle School, Lexington District One

Explore how a workshop model can support the mathematics content and process standards, while meeting the needs of all learners. Participants will gain a greater understanding of the components of a workshop model. We will examine how to structure lessons, set up your classroom, establish routines, and create materials to support this type of differentiated instruction.

**140. Using Impactful Strategies to Engage, Teach, and Assess Middle School Mathematics**

3rd – 8th | Congaree Room A

**Angela McCord**

MC Squared Consulting

Utilize Marzano's high-yield instructional strategies to successfully integrate tools that aid in teaching. Choose appropriate technology tools for conceptual understanding, differentiated instruction, and formative assessment.

**141. Clocks and Fractions: It's Time**

PreK – 8th | Carolina Room A

**Dr. Kevin LoPresto**

Francis Marion University

Utilizing analog clocks as a model for examining fractions with elementary grade children. This session will share rationale and activities using clocks to teach fractions and related concepts

# Friday, November 16th

## 1:00 – 2:15

**142. Engaging Young, Gifted, and Black Learners in Culturally Challenging Tasks**

6th – 8th | Richland Room C

**Dr. Lisa Hinton**

Clayton County (Georgia) Public Schools

This interactive session will focus on implementing culturally responsive teaching methods for gifted African American learners. We will discover multiple approaches to create classroom environments inclusive of diverse learners while engaging them in meaningful, culturally-based math tasks.

**143. Oh, the Math They Will Know!**

PreK – 2nd | Ballroom A/B

**Stephanie Bainbridge**

Box Cars and One-Eyed Jacks

Come prepared to play games that incorporate cards and dice to teach counting, place value, comparing numbers, counting on, patterns, addition/subtraction, doubles and more.

**144. Roach Motel Tasks: Any Student Can Check-in, But None Check Out**

6th – 8th | Richland Room B

**Kari Meldrum**

Richland School District Two

Come learn how to write questions and tasks that allow access for every student, and at the same time, assess their understanding. Activities will include work from Robert Kaplinsky and Dan Meyer.

# 1:00 – 2:15 Sessions

# 1:15 – 2:15 Sessions

## 1:15 – 2:15

**145. Keeping Your Students Engaged Using Technology in a 1:1 Classroom**

General | Congaree Room B

**Brook Wiant & Geoff Turner**

Florence Chapel Middle School

Make your classroom the place where students are excited about learning and solving math problems. In this session, we will explore Math Breakouts, “Math Selfies”, Doodle Math Study Pages, Socrative Space Race...just to name a few!

**146. Escaping Mathphobias**

6th – 12th | Ballroom C

**Ken Orgain**

Pearson

Come join us in the **Escape Room!** The **Escape Room** is a math game that involves players working collaboratively to solve a series of critical thinking real world math problems to open a locked box. **Escape Rooms** are an exciting way to engage students while developing skills and concepts using the *Three Acts of a Mathematical Story;* Introduce the central conflict/task, Overcome obstacles by looking for resources and building teamwork, Resolve the conflict while setting up a sequel or extension problem. Come and discover how mathphobia’s can be overcome through engaging lessons that incorporate 21st century learning skills that meet the needs of diverse learners in the math classroom. This session will highlight some challenges teachers encounter; from reluctant learners to enhancing rigor. Different approaches to motivate students can be used to reduce fear & anxiety while reaching all learners.

# Friday, November 16th

## 1:15 – 2:15

**147. Searching the Web for Math**

9th – 12th | Hall of Fame Room

**Jennifer Wilson**

Aiken High School

Do you have access to computers, but no time? Websites, and tips for using them to supplement your math instruction, will be shared.

**148. How to Reduce Mathematics Anxiety**

General | Lincoln Room

**Marilyn Curtain-Phillips**

Fairfield Central High School

The personal and educational consequences of mathematics anxiety has great impact. As an experience classroom teacher, author and speaker, I want to share my findings for reducing mathematics anxiety.

**149. SCReady Release Items and Updates**

3rd – 8th | Gallery Area (Under Escalator)

**Daniel Cammisa**

Education Associate, Office of Assessment

South Carolina Department of Education

Teachers will discuss release items and hear updates from the South Carolina Department of Education Office of Assessment.

# 1:00 – 2:15 Sessions

# 1:15 – 2:15 Sessions

### How do I receive a subscription to The MathMate?

Active members of SCCTM receive online subscriptions to The MathMate as part of their memberships.

### What types of articles does The MathMate publish?

The mission of The MathMate is to feature articles about innovative mathematical classroom practices, important and timely educational issues, pedagogical methods, theoretical findings, significant mathematical ideas, and hands-on classroom activities and disseminate this information to students, educators and administrators. Any content which fits the mission of the journal is welcomed.

### Can I earn recertification credit for publishing in The MathMate?

Yes. According to the SC Department of Education Renewal Credit matrix at ed.sc.gov/educators/certification/certification-forms/forms/renewal-matrix/, the primary author of a refereed (peer-reviewed) journal article can earn 60 renewal credits.

### Is The MathMate peer reviewed?

Yes. The journal uses a double-blind, peer-review process.

### How do I submit an article to The MathMate?

Submissions may be sent to: scmathmate@gmail.com

# Friday, November 16th

# 1:30 – 2:30 Sessions
# 1:30 – 2:45 Sessions

## 1:30 – 2:30

**150. The Cricut Classroom**
6th – 8th | Senate Room
**Marie Darstein**
RP Dawkins Middle School
Do you own a Cricut or Silhouette or are you thinking about buying one? Attend this session to learn how your machine can be used in your classroom.

**151. I do, We do -- We Don't!**
6th – 12th | Carolina Room B
**Tiff Peters & Charlotte Ihme**
Greenville Technical Charter High School
This session will focus on how to change the landscape of the math classroom from teacher-centered lecture to student-centered, inquiry-based learning.

**152. Repairing the "I'm Bad at Math" Attitude**
6th – 8th | Lexington Room B
**Christi Fricks & Erica Aiken**
Riverside Middle School
We will share classroom routines and ideas that we have found to help repair and change the mindset that holds students back from math success.

**153. Great Minds Don't Think Alike – Building Math Fluency**
PreK – 5th Richland Room A
**Ryan Dougherty**
ETA hand2mind
Using a combination of Number Strings and Number Talks we can help students develop a stronger "toolbox" for thinking about numeracy.

## 1:30– 2:45

**154. What's the Problem? Supporting Student Success in Solving Problems**
PreK – 5th | Carolina Room A
**Sandy Szako**
ORIGO Education
Exploring how language, discourse, visual models, and strategy/thinking games foster reasoning skills and develop deeper understanding of concepts through a variety of real-world problems.

**155.** Open Room Congaree Room A

# 2:30 – 3:45 Keynote Address

## **156.** Reinventing & Reimagining the Mathematics Classroom

General | Ballroom A/B

**Dr. Eric Milou**

Rowan University, Glassboro, New Jersey

Today, it seems as if nearly everyone agrees that mathematics (especially high school math) needs to change. For far too long, mathematics has not worked for far too many students. Mathematics has not changed substantially in my lifetime, nor has it changed substantially for most students, teachers & schools. It is clearly an issue—and it is time to discuss and make serious changes.

# Certificate Renewal Credits

At the end of each session, the presenter or facilitator will inform attendees of the Certificate Renewal Credit (CRC) Code for that session.

If the presenter does not provide this code, please ask for this information before you leave the session. Each presenters' speaker packet has an envelope with their session code printed on the outside of the envelope. If a speaker presents more than once, there will be a different code for each individual session. You must have the correct code numbers as proof of your attendance.

It is the attendee's professional responsibility to keep up with the sessions that he/she personally attends and to obtain the code.

An official attendance form may be found on page 49 of this booklet.

Please check your email after the conference for a link to Google Forms that may be accessed to obtain a certificate of attendance which may be used in place of the document on page 49. Attendees must have the correct code for each session attended in order to have certificates emailed to them. A planning sheet has been provided to help in keeping up with this information.

SCCTM does not keep a record of session attendance. An attendee's proof of attendance at a session is the CRC code shared at the end of each session. You may obtain the exhibit hall code at the SCCTM booth.

## Your Personal Planning Sheet for Thursday, November 15

Registration 7:30 am to 12:30 pm Exhibits 8:00 am to 4:00 pm

| Time | Activity/Session Title | Session No. | Location |
|---|---|---|---|
| | **Visit the Exhibits** | | *Exhibit Hall* |
| 8:00 | | | |
| 9:15 | Keynote Address | | *Ballroom A/B* |
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| 1:45 | Keynote Address | | *Ballroom A/B* |
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| 4:45 | 42nd Annual SCCTM Business Meeting & Awards Ceremony | | *Ballroom A/B* |

## Your Personal Planning Sheet for Friday, November 16

Registration 7:30 am to 9:30 am Exhibits 8:00 am to 2:00 pm

| Time | Activity/Session Title | Session No. | Location |
|---|---|---|---|
| | Visiting the Exhibits | | *Exhibit Hall* |
| 8:00 | | | |
| 9:15 | Keynote Address | | *Ballroom A/B* |
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| 2:30 | Closing Keynote Address | | *Ballroom A/B* |

## Credit Renewal Planner

**General South Carolina Guidelines:**

1. Renewal credits must be related to the educator's professional growth plan and/or support the goals of the employing educational entity, and therefore, are subject to the approval of the educational entity. A pre-approval for this professional activity may be required. SCCTM Conference credits will be issued under Option #10 of the SC Certificate Renewal Plan.
2. An educator may earn renewal credits only through activities for which all eligibility criteria have been met.
3. The educator is responsible for maintaining all required renewal credit verification and documentation.

**Personal Planning:**

1. Review the list of sessions available for each time period and select the sessions you would like to attend.
2. Write the session topic or title and room number in the space provided. Refer to this form throughout the conference.
3. Before you leave a session, plan where you will go for your next session. Plan an alternate choice.

**Certificate Renewal Credits:**

1. At the end of each session, the presenter or facilitator will inform attendees of the Certificate Renewal Credit (CRC) Code for that session. If the presenter does not provide this code, please ask for this information before you leave the session. <u>You must have the correct code numbers as proof of your attendance.</u>
2. Sessions and workshops are of varying lengths and are counted according to the number of minutes involved.
3. You may count up to 60 minutes for reviewing the instructional materials in the exhibit area. The CRC Code for this may be found in the SCCTM booth.
4. Each hour of attendance in sessions or workshops is equal to one (1) certificate renewal point. To calculate the total number of points earned, you will need to add your total session and workshop minutes and divide by 60 to determine the credit points you earned.
5. Retain this completed form in your Certificate Renewal File for submission according to your district's procedures.
6. As an alternate to this form, a link will be provided for you to obtain certificates as proof of your attendance. You must use the CRC code provided at the end of a session to obtain the certificate.

# South Carolina Council of Teachers of Mathematics 2018 Conference Renewal Credit Certification Form

Official Attendance Form

## Name _____

Complete this table to document your participation in conference sessions and workshops for certificate renewal credit points. CRC Codes will be provided at the end of each session. It is the attendee's responsibility to keep up with their attendance and to obtain and document the session CRC codes to use as proof of attendance.

| Scheduled Time | Session | Title/Topic | Room | CRC Code | Minutes |
|---|---|---|---|---|---|
| **Wednesday, November** | | | | | |
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| **Thursday, November** | | | | | |
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| **Friday, November 16** | | | | | |
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| **Total all session and workshop minutes.** | | | Total Minutes: | | |
| **To calculate your CRC points, divide minutes by 60.** | | | Total Points: | | |

## Assurance of Accuracy:

Only this Official Document in your Program Book is signed. Please only use and sign this form to affirm the accuracy of your participation and the renewal credits accrued.

_____

**Educator's Signature Date**

*Leigh Martin*

**Leigh Martin, President**
**SC Council of Teachers of Mathematics**

# 2018 SCCTM Fall Conference Evaluation Form

SCCTM appreciates your constructive comments as we plan the 2018 conference. Please complete this form at the end of the conference, drop it in the Evaluation box at Registration, mail it to SCCTM, 6 Sandalwood Ln., Sumter, SC 29154, Attention: Cindy Parker, or email it to director@scctmconference.org A link to an electronic evaluation form will also be provided.

Please circle only one response per question and make any additional comments on a separate sheet.

| Question | Rating | | | |
|---|---|---|---|---|
| 1. How do you rate your overall experience at the conference? | Excellent | Good | Fair | Poor |
| 2. How do you rate the Exhibit Area? | Excellent | Good | Fair | Poor |
| 3. How do you rate the registration process? | Excellent | Good | Fair | Poor |
| 4. How do you rate the variety of sessions? | Excellent | Good | Fair | Poor |
| 5. How do you rate the program booklet? | Excellent | Good | Fair | Poor |
| 6. How do you rate the new program app? | Excellent | Good | Fair | Poor |
| 7. How do you rate the business meeting? | Excellent | Good | Fair | Poor |
| 8. How do you rate the member/speaker reception? | Excellent | Good | Fair | Poor |
| 9. How do you rate the facilities? | Excellent | Good | Fair | Poor |

Please rate the sessions that you attended to assist us with plans for future conferences. Fill in the **Session Number** and circle only one of the descriptors. If you want to make additional comments about any session, please put comments on a separate sheet and be sure to provide Session Number and speaker's name.

| Session Number | Speaker's Name | Rating | | | |
|---|---|---|---|---|---|
| | | Excellent | Good | Fair | Poor |
| | | Excellent | Good | Fair | Poor |
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| | | Excellent | Good | Fair | Poor |
| | | Excellent | Good | Fair | Poor |
| | | Excellent | Good | Fair | Poor |

Thank you very much for taking time to complete this evaluation. In order to keep improving, the Executive Board requests and appreciates your thoughtful input. If you have general suggestions related to the conference, please give us those also on the back of this page.

# 2018 SCCTM Conference Schedule at a Glance, Thursday November 15

**8:00 – 9:00 SESSIONS**

2. **Math! When Am I Ever Going to Use That?** 6th - 12th | Ballroom A/B
3. **Sowing the Seed of Literacy to Improve Problem Solving** 6th – 8th | Ballroom C
4. **Math Their Way through BUILD and Play** PreK – 2nd | Hall of Fame Room
5. **Raise Student Engagement: Invite Six Co-Teachers to Join Your Classroom** (Algebra Nation) 6th – 12th | Lincoln Room
6. **Rethinking homework… again. Let ALEKS.com manage your homework, learning & assessments!** 3rd – 12th | Senate Room
7. **Let's Mix it all Up!** 6th – 8th | Carolina Room A
8. **Games and Activities for Numerical Fluency** 6th – 8th | Carolina Room B
9. **STEM Isn't Just "Child's Play"** K – 12th | Lexington Room A
10. **Experiential Play: Experience Math's Relevance** K – 8th | Lexington Room B
11. **Worksheet Woes** K – 5th | Richland Room A
12. **How Formative Assessment Lessons Changed My Classroom Dynamics and Boosted Engagement** 6th – 12th | Richland Room B
13. **Sometimes Parents just don't understand!** PreK – 2nd | Richland Room C
14. **What the Tech? - Implementing Technology Effectively in the Math Classroom** 6th –12th |Congaree Room A
15. **Growing Each Learner in the Student-Centered Classroom** 6th – 8th | Congaree Room B

**9:15 – 10:15 SESSION**

16. **Motivate the Unmotivated Student with Differentiation on Your Side** 3rd –8th | Lexington B

**9:15 – 10:30 KEYNOTE ADDRESS**

17. **Catalyzing Change: Identity, Agency, Positionality and Equitable Instructional Practices** General | Ballroom A/B

**Dr. Robert Q. Berry III**
**NCTM President**

**9:15 – 10:30 SESSIONS**

18. **All Hands-on Deck** 3rd – 5th | Ballroom C
19. **Collaborative Ideas for Developing Productive Perseverance** 9th – 12th | Hall of Fame Room
20. **Using Algebra Nation with Fidelity: Differentiating to Meet the Needs of Multiple Students** 6th – 12th | Lincoln Room
21. **Sowing the Seeds of Math Workshop** 3rd – 8th | Senate Room
22. **STEM: Connecting the Dots** 6th – 8th | Lexington Room A
23. **Math Running Records: The GPS of Math Fact Fluency** PreK – 5th | Richland Room A
24. **Red Rover! Red Rover! To Experience the Latest, Come on Over!** 6th – 12th | Richland Room B
25. **Let's Grow with Math!** PreK – 5th | Richland Room C
26. **Making Every Child a Mathlete** 6th – 8th | Congaree Room A
27. **Strategies Used to Promote Discourse in Mathematics Classrooms** 6th – 12th | Congaree Room B

**9:15 – 11:45**

28. **Edventure Math Trail** 3rd –8th | Gallery Area (Under Escalator at 9:15 and head to Edventure)

**9:30 – 10:30 SESSIONS**

29. **Breakout EDU Re-Mix for Math Classes** General | Carolina Room A
30. **100kin10 Listening Session** General | Carolina Room B
31. **Amusement Park Math** K – 5th | Gallery Area (Under Escalator)

**10:45 – 11:45 SESSIONS**

32. **Support for Future Teachers** College Students| Congaree Room A
33. **Using Minecraft in the Classroom** 3rd – 5th | Ballroom C
34. **Classroom Misbehavior - The Bad Seed We Can Do Without Pre-K-12** General | Hall of Fame Room
35. **Escaping the Traditional Classroom into a World of Adventure** 6th – 8th | Lincoln Room
36. **Using Gazebos to Bridge the Classroom to the Real World** 9th – 12th | Carolina Room A
37. **Catalyzing Change in High School Mathematics: Initiating Critical Conversations** 9th – 12th | Richland Room C
38. **Sow a Seed – Teach Elementary / Middle School Teachers Measurement and do it hands-on.** PreK – 8th | Carolina Room A
39. **Pump Up the Powerful Mathematical Practices** 6th – 12th | Gallery Area – Under the Escalator

**10:45 – 12:00 SESSIONS**

40. **Exploring Math Concepts with Games and Manipulatives** General | Ballroom A/B
41. **K-2 Number Sense & Counting Collections** PreK – 2 | Senate Room
42. **Using the TI-Nspire in the Middle School Classroom** 6th – 8th | Carolina Room B
43. **Math in Action: Building a Pen and House for Puppy** 3rd – 5th | Lexington Room A
44. **EdVenture's Math Games** K – 6th | Lexington Room B
45. **Developing Mathematical Roots: Promoting a Mathematics Culture Across the Curriculum** PreK – 6th | Richland Room A

agile Mind® 11:00 – 12:00

**Exhibit Hall Classroom Workshop**

46. **How Moody are You?** 6th – 12th | Richland Room B

**12:15 – 1:15 SESSION**

47. **Teaching Through Game Play** 9th – 12th | Congaree Room B
48. **The Power of Virtual Manipulatives** PreK – 8th | Carolina Room B

**12:15 – 1:30 SESSIONS**

49. **Embracing the Present to Own your Future** General | Ballroom A/B
50. **Rolling on Fact Fluency Grades 3-5** 3rd – 5th | Ballroom C
51. **Continuing the Conversation Beyond the First Raised Hand** 3rd – 12th | Hall of Fame Room
52. **Using Algebra Tiles from Polynomials to Completing the** Square 6th – 12th | Lincoln Room
53. **Next Generation Numbers K – 2nd** | Senate Room
54. **"Math the Unsinkable"** 6th – 8th | Carolina Room A
55. **Maker Education 101** General | Lexington Room B
56. **Guided Math in Action** PreK – 5th | Richland Room A
57. **Red Light! Green Light!** 6th – 8th | Richland Room B
58. **Increasing Engagement through Collaboration and Rich-Problem Solving** 9th – 12th | Richland Room C
59. **Seriously Fun Mathematics with Cards** 3rd – 5th | Congaree Room A

**12:30 – 1:45 PM SESSIONS**

60. **Wake Up! Active Learning in the Mathematics Classroom** 9th – 12th | Lexington Room A

**1:45 – 2:45 SESSIONS**

61. **Making a Gingerbread Village in Math Class** 3rd 8th | Ballroom C
62. **It's Not Right, But It's Okay: Errors as Opportunities in Math** 6th – 12th | Hall of Fame Room
63. **SmART Math** 3rd – 5th | Lincoln Room
64. **Using visual patterns to introduce Linear Functions** 7th – 10th | Congaree Room B
65. **Breakout of the Routine Reviews in Math Class!** 9th – 12th | Gallery Area (Under Escalator)

**1:45 – 3:00 KEYNOTE ADDRESS**

66. **Using Learning Intentions and Success Criteria to Improve Teacher Clarity** General | Ballroom A/B
*Dr. Laurie Boswell*

BIG IDEAS LEARNING

**1:45 – 3:00 SESSIONS**

67. **Juggling the Hippos** PreK – 5th | Senate Room
68. **Geometry Playground** 6th – 8th | Carolina Room A
69. **Making Algebra Child's Play** 3rd – 8th | Lexington Room B
70. **Best Practices for Engaging 21st Century Learners** PreK – 2nd| Richland Room A
71. **Please Don't Stop the Music!** 6th – 12th | Richland Room B
72. **Connecting the Dots - Primary Domino Games** PreK – 2nd | Richland Room C
73. **Are We REALLY Having Fun in Math?** 6th – 8th | Congaree Room A

**2:00 – 3:15 SESSION**

74. **Number Talks** K – 5th | Lexington Room A

**2:15 – 3:15 SESSION**

75. **A Single Math Problem Becomes a "seed" to explore Rich Ramifications in Diverse Areas** General | Carolina Room B

**3:15 – 4:15 SESSIONS**

76. **Get Started with Blended Learning** 6th – 8th | Hall of Fame Room
77. **Mathematical Modeling: Engage your reluctant learners!** 9th – 12th | Congaree Room A
78. **Speaking and Listening Mathematically** K – 5th | Gallery Area (Under Escalator)
79. **Deepening Questioning to Increase Student Mastery of Content Area Learning Targets** 3rd – 12th | Carolina Room A

**3:15 – 4:30 SESSIONS**

80. **Math Workshop: It's not just for lower grades** 3rd – 8th | Ballroom C
81. **Cultivating Mathematicians through Math Talk** PreK – 2nd | Lincoln Room
82. **The "Knows" of Dominoes and Pentominoes** 3rd – 5th | Senate Room
83. **EdVenture presents Book Tasting** General | Lexington B
84. **Primary Math Clubs** PreK – 2nd | Richland Room A
85. **STEM Activities: Use the TI-Innovator™ Rover to Plot a Path to Growth for All Students** 6th – 12th | Richland Room B
86. **"Warming Up" Your Number Sense"** PreK – 5th | Richland Room C
87. **Sowing the Seed of Mathematical Thinking: The Power of Making Connections** 9th – 12th | Congaree Room B

**3:30 – 4:30 SESSIONS**

88. **Investigation: What Does Being World Class really mean? How Might We Change to Get There?** General | Carolina B
89. **Putting the Pieces Together** 3rd – 5th | Lexington A

**4:45 PM**

90. **SCCTM Annual Business Meeting, Awards, Reception, and Door Prizes** General | Ballroom

## Thursday's Highlights

- Registration 7:30 – 12:30
- Exhibit Hall 8:00 – 4:30
- Sessions Begin at 8:00 – End at 4:30
- Morning Keynote 9:15 – 10:30
- Lunch Available 11:00 – 1:00
- Afternoon Keynote 1:45 – 3:00
- Business Meeting, Awards, Reception, and Door Prizes 4:45

# 2018 SCCTM Conference Schedule at a Glance, Friday November 16

### 8:00 – 9:00 SESSIONS

91. **Homework with a Purpose** 3rd - 12th | Ballroom A/B
92. **Your School Garden PBL** 6th – 8th | Ballroom C
93. **Khan Academy** General | Hall of Fame Room
94. **Less is More Approach to Conceptual Learning and Inquiry** 6th – 12th | Lincoln Room
95. **You're the Difference. Don't be the One Who Didn't Try!** 3rd – 12th | Senate Room
96. **The Mathematics of Secret Messages** 9th – 12th | Carolina Room A
97. **Is Equal Groupings It? Choose Your Own Pathway for Multiplication Using Tools, Models, and Strategies** 3rd – 5th | Carolina Room B
98. **What is STEAM?** K – 12th | Lexington Room A
99. **MakerSpace and Inclusion: A Nontraditional Approach** General | Lexington Room B
100. **The Magic of Engagement!** K – 5th | Richland Room A
101. **Trouble factoring? Box it!** 9th – 12th |Richland Room B
102. **Engagement, Persistence & Academic Success Using Technology** 6th – 12th | Richland Room C
103. **New Teacher Meeting (Years 1-3)** 9th –12th | Congaree Room A
104. **Common Assessments and So Much More: Collaboration Among Algebra 2 Teachers** 9th –12th | Congaree Room B

### 9:15 – 10:15 SESSION

105. **Help me, help you. Getting students to go beyond "IDK"** General | Lexington B

### 9:15 – 10:30 KEYNOTE ADDRESS

106. **Advocating for High Quality Math Instruction: Effectively Responding to Critics**
General | Ballroom A/B
**Dr. Matt Larson, HMH**

Houghton Mifflin Harcourt

### 9:15 – 10:30 SESSIONS

107. **Mathcation- Take A Vacation From the Same Old Math Routine!** 6th – 8th | Ballroom C
108. **To Proficiency & Beyond, A Strategic Approach to Addition and Subtraction** PreK – 2nd | Hall of Fame Room
109. **Forward Thinking, Teaching and Learning (FTTL)** 6th – 12th | Lincoln Room
110. **Getting Groovy with Guided Math** – 3rd – 5th | Carolina Room B
111. **Grid Games: Gamification of the Math Classroom** 3rd – 8th | Carolina Room B
112. **Wake Up! Active Learning in the Mathematics Classroom** 6th – 8th | Lexington Room A
113. **Best Practices for Engaging 21st Century Learners** 6th – 12th | Richland Room A
114. **Making the Most of Meaningful Models** K – 5th | Richland Room B
115. **Launching Algebraic Thinking Using One-to-One Technology** 9th – 12th | Richland Room C

### 9:15 – 10:30 SESSIONS

116. **The Portrait of a "College-Ready Math Student": Conversations about Transitions** 6th – College | Congaree Room A
117. **Little Stuff, Big Effect. Increasing Student Interest** 9th – College | Congaree Room B

### 9:15 – 11:45 Mini-Course

118. **Effectively Using Algebra Tiles in Middle Level Mathematics Classes** 6th – 8th | Senate Room

### 10:30 – 11:45 SESSIONS

119. **EOCEP Release Items and Updates** 9th – 12th | Gallery Area (Under Escalator)
120. **Flight Camp for Teachers** General | Lexington Room B

### 10:45 – 11:45 SESSIONS

121. **Maximizing High School Technology for Math Courses** 9th – 12th | Ballroom A/B
122. **Connecting Children's Literature with Middle Grades Math** 6th – 8th | Ballroom C
123. **To Proficiency & Beyond, A Strategic Approach to Addition and Subtraction** 3rd – 5th | Hall of Fame Room
124. **Tips, Tricks and Tools to Survive in a Middle School Math Classroom** 6th – 8th | Lincoln Room
125. **You Used to Solve Me on My Mobile** 6th – 12th | Carolina Room A
126. **Relationships between the Volumes of Cylinders, Cones, and Spheres** 6th – 8th | Carolina Room B
127. **One mighty seed: The Practice of Teaching using Student Teams** General | Congaree Room A
128. **Survive and Thrive the First Year** General | Congaree Room B

### 10:45 – 12:00 SESSIONS

129. **STEM: Math is the Connection** 3rd – 5th | Lexington Room A
130. **TI-Rover Robot Teaches Geometry in Middle School!** 6th – 8th | Richland Room B
131. **Changing the Way that We Teach Adding and Subtracting Rational Expressions: A Venn Diagram Approach** 9th – 12th | Richland Room C

### 12:00 – 1:00 SESSION

132. **Total Participation Techniques** 3rd – 8th | Ballroom C
133. **Triangles on Triangles** 9th – 12th | Congaree Room B
134. **Teaching and Assessing Math in a Digital World** 6th – 12th | Hall of Fame Room
135. **Math in Motion** 6th – 12th | Lincoln Room
136. **Teaching and Assessing Using Inquiry Based Learning** 6th – 12th | Carolina Room B

### 12:00 – 1:15 SESSIONS

137. **OMG! MATH!** 3rd – 12th | Senate Room
138. **Early Learning and Mathematics** PreK – 2nd | Lexington Room B
139. **Grow ALL Students Through Math Workshop in a Secondary Classroom** 6th – 12th | Richland Room A
140. **Using Impactful Strategies to Engage, Teach, and Assess Middle School Mathematics** 3rd – 8th | Congaree Room A

### 12:15– 1:15 SESSION

141. **Clocks and Fractions: It's Time** PreK – 8th | Carolina Room A

### 1:00 – 2:15 SESSIONS

142. **Engaging Young, Gifted, and Black Learners in Culturally Challenging Tasks** 6th – 8th | Richland Room C
143. **Oh, the Math They Will Know!** PreK – 2nd | Ballroom A/B
144. **Roach Motel Tasks: Any Student Can Check-in, But None Check Out** 6th – 8th | Richland Room B

### 1:15 – 2:15 SESSIONS

145. **Keeping Your Students Engaged Using Technology in a 1:1 Classroom** General | Congaree Room B
146. **Escaping Mathphobias** 6th – 12th | Ballroom C
147. **Searching the Web for Math** 9th – 12th | Hall of Fame Room
148. **How to Reduce Mathematics Anxiety** General | Lincoln Room
149. **SCReady Release Items and Updates** 3rd – 8th | Gallery Area (Under Escalator)

### 1:30 – 2:30 SESSIONS

150. **The Cricut Classroom** 6th – 8th | Senate Room
151. **I do, We do -- We Don't!** 6th – 12th | Carolina Room B
152. **Repairing the "I'm Bad at Math" Attitude** 6th – 8th | Lexington Room B
153. **Great Minds Don't Think Alike - Building Math Fluency** PreK – 5th Richland Room A

### 1:30 – 2:45 SESSION

154. **What's the Problem? Supporting Student Success in Solving Problems** PreK – 5th | Carolina Room A
155. **Open Room** 6th – 8th | Congaree Room A

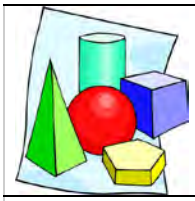
### 2:30 – 3:45 CLOSING KEYNOTE ADDRESS

156. **Reinventing & Reimagining the Mathematics Classroom** General | Ballroom A/B
**Eric Milou, Rowan University, Sponsored by Pearson**

PEARSON Education

## Friday's Highlights

- Registration 7:30 – 9:30
- Exhibit Hall 8:00 – 2:00
- Sessions Begin at 8:00 – End at 3:45
- Morning Keynote 9:15 – 10:30
- Lunch Available 11:00 – 1:00
- Closing Keynote 2:30 – 3:45



# Exhibitors

| | Booth # |
|---|---|
| Agile Mind, Inc. | 41 |
| Algebra Nation | 27 |
| Bedford, Freeman, & Worth High School Publishers | 3 |
| Borenson and Associates, Inc. | 7 |
| Box Cars and One-Eyed Jacks | 29 |
| C King Education, Inc. | 36 |
| Carnegie Learning | 34 |
| Casio America, Inc. | 6 |
| Charleston County School District | 38 |
| CPM Educational Program | 4 |
| Curriculum Associates, LLC | 17 |
| Discovery Education | 11 |
| EdVenture, Inc. | 39 |
| ETA hand2mind | 26 |
| ExploreLearning | 16 |
| Hart, Incorporated | 37 |
| Houghton Mifflin Harcourt | 9-10 |
| Kaplan Early Learning Company | 15 |
| Lexington School District One | 35 |
| McGraw-Hill Education | 19-20 |
| Muggins! Math | 31 |
| National Geographic Learning/Cengage Learning | 22-25 |
| NCTM | 1 |
| Newton Education Solutions | 42 |
| ORIGO Education | 30 |
| Palmetto State Teachers Association | 28 |
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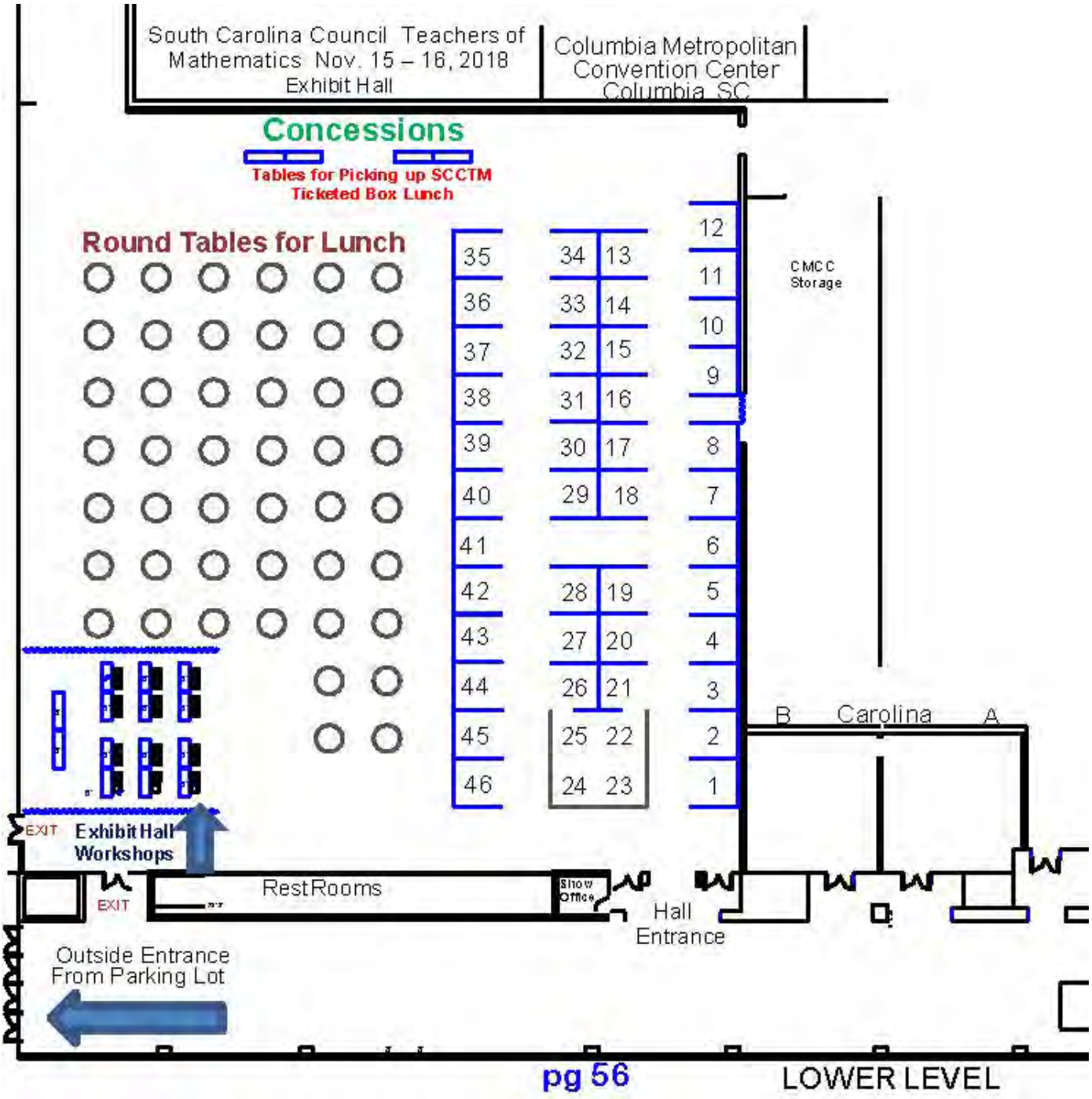
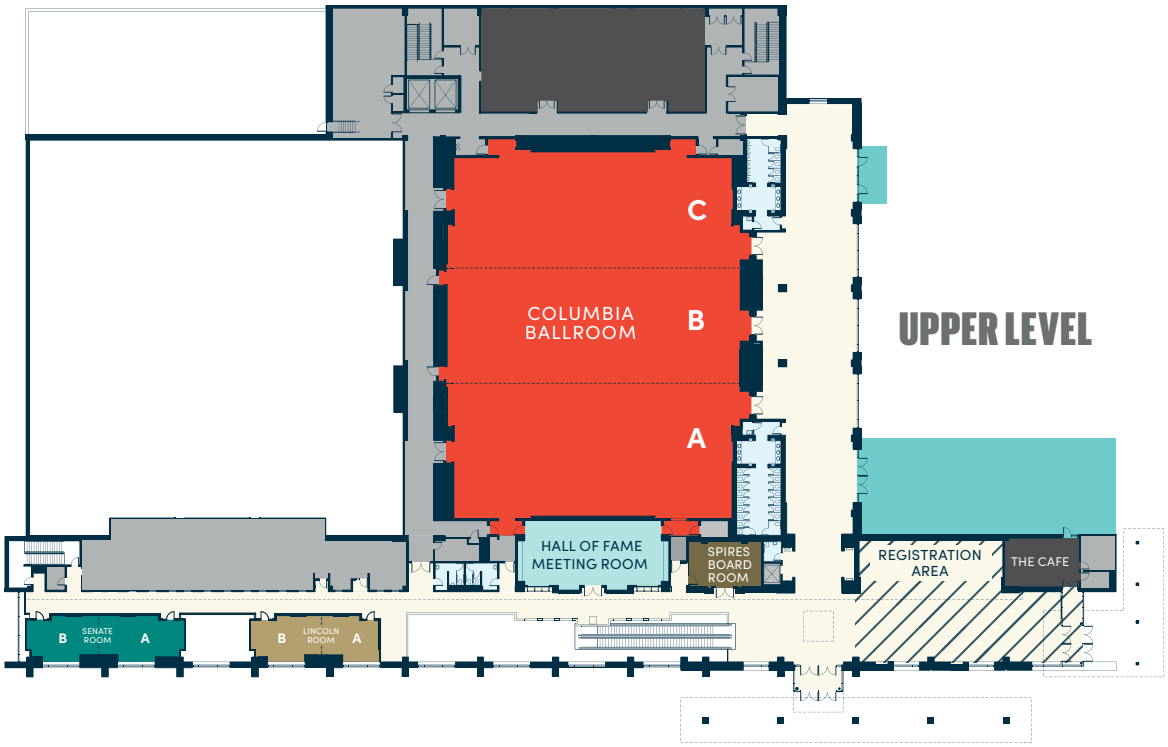
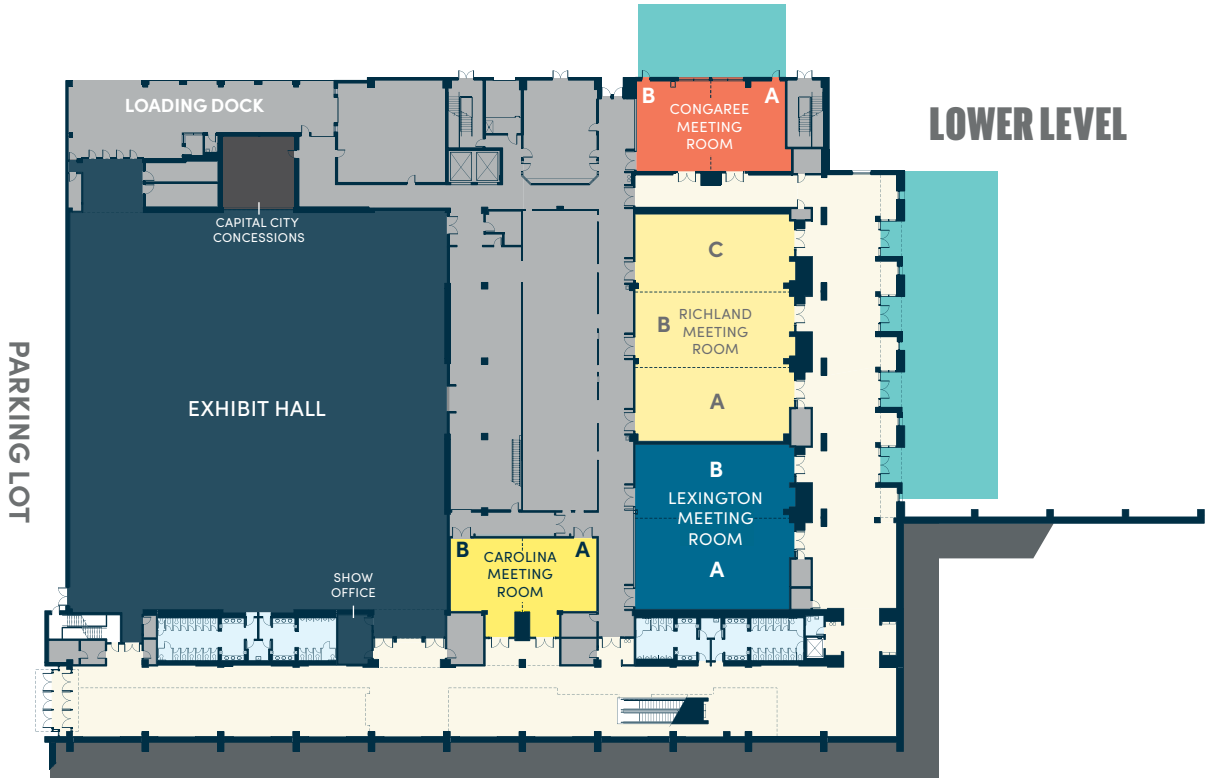
| Perfection Learning | 5 |
| South Carolina Coalition for Math & Science at Clemson University | 32 |
| SCCTM | 2 |
| Texas Instruments, Inc. | 21 |
| The Outstanding Mastery Guides | 14 |
| The South Carolina Education Association | 33 |
| TKO--Turn Kids On | 12 |
| University of South Carolina College of Education | 13 |
| University of South Carolina Online Graduate Degrees | 40 |
| | |

# Exhibit Hall Vendor Booths Layout



BALLROOM
SENATE ROOM
KITCHEN/ CONCESSIONS
LEXINGTON MEETING ROOM
OUTDOOR SPACE
SPIRES BOARDROOM
LINCOLN ROOM
EXHIBIT HALL
RICHLAND MEETING ROOM
PREFUNCTION SPACE
HALL OF FAME MEETING ROOM
REGISTRATION AREA
CAROLINA MEETING ROOM
CONGAREE MEETING ROOM
SERVICE
RESTROOMS



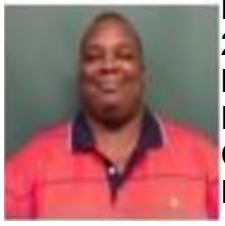

# FLOOR PLAN



COLUMBIA SC METROPOLITAN CONVENTION CENTER

## INDEX OF SPEAKERS
(Numbers Indicate Session Numbers)

# SCCTM Officers 2017 – 2018

| | |
|---|---|
|  President<br>**Leigh Martin**<br>Clemson University<br>Clemson, SC<br>Pickens County |  President-Elect<br>**Marc Drews**<br>Edventure<br>Columbia, SC<br>Richland County |
|  Past President<br>2018 Program Chair<br>**Morondo Lewis**<br>Eue Claire High School<br>Columbia, SC<br>Richland County |  Secretary<br>**Alva White**<br>Richland District One<br>Columbia, SC<br>Richland County |
|  Treasurer<br>**Gina Dunn**<br>Lander University<br>Greenwood, SC<br>Greenwood County |  NCTM Representative<br>**Ryan Higgins**<br>Coker College<br>Hartsville, SC<br>Darlington County |
|  South Carolina Department of Education Representative<br>**Sandra Ammons**<br>South Carolina Department of Education<br>Columbia, SC<br>Richland County |  Vice President for Elementary Education<br>**Jennifer Wilson**<br>Midway Elementary School<br>Anderson, SC<br>Anderson County |
|  Vice President for Middle School Education<br>**Eugene Bellamy**<br>Hardeeville-Ridgeland Middle School<br>Hardeeville, SC<br>Jasper County |  Vice President for Secondary Education<br>**Sherry Young**<br>South Florence High School<br>Florence, SC<br>Florence County |

| | |
|---|---|
|  Vice President for Post Secondary Education<br>**Bridget Coleman**<br>USC Aiken<br>Aiken, SC<br>Aiken County |  Vice President at Large<br>**Alisa Hobgood**<br>West Florence High School<br>Florence, SC<br>Florence County |
|  Government Relations<br>**Christie Reid**<br>Clover School District 2<br>Rock Hill, SC<br>York County |  Commercial Exhibits Manager<br>**Lane Peeler**<br>South Carolina Department of Education retired |
| IT Manager<br>  **Bill Gillam**<br>Richland School District Two, retired<br>ECPI University - Current<br>Columbia, SC<br>Richland County | Executive Director<br>Program, Membership, & Registration Manager<br>  **Cindy Parker**<br>Alice Drive Middle School<br>Sumter School District, retired<br>Sumter, SC<br>Sumter County |
|  MathMate Editor<br>**Chris Duncan**<br>Lander University<br>Greenwood, SC<br>Greenwood County |  Ann Senn<br>Program Manager/Executive Director Emeritus<br>**Ann Senn**<br>JF Bailey & Associates, Inc<br>Columbia, SC<br>Richland County |

# 2018 SCCTM FALL CONFERENCE PLANNING COMMITTEE CHAIRS

## Columbia, South Carolina

| | |
|---|---|
| Conference co-chairs: | Leigh Martin, Site Chair |
| | Morondo Lewis, Program Chair |
| Commercial Exhibits: | Lane Peeler |
| Door Prizes: | Cristi Fricks |
| Equipment IT Manager: | Bill Gillam |
| Math Trail at Edventure: | Caitlin Dabkowski |
| NCTM Materials: | Ryan Higgins |
| Program Manager: | Cindy Parker |
| Registration: | Cindy Parker |
| Speaker Coordinator: | Cindy Parker |
| Student Pages: | Bridget Coleman |

**CONFERENCE PLANNING CALENDAR**

**2019 SCCTM Fall Conference - November in Greenville**

**43rd Annual Business Meeting**

**NCTM 2019 Annual Meeting and Exposition**

**April 3 - 6, 2019 San Diego, California**

# Platinum Sponsors

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TRANSFORMING LEARNING. TRANSFORMING LIVES.

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TEXAS INSTRUMENTS

PROMETHEAN

# *OPENING CONFERENCE RECEPTION*

**Wednesday, November 14th at 7:00 pm**

**The SCCTM Board of Directors would like to invite conference attendees to the Opening Conference Reception to quick off the 2018 South Carolina Council of Teachers of Mathematics Annual Fall Conference.**

**Join us in Ballroom A/B at 7:00 for the Opening Session with**

**National Geographic Explorer, Luke Dollar.**

## Lunch on Thursday & Friday

## 11:00 am – 1:00 pm

**When you check it at registration, you will receive your lunch tickets for Thursday and/or Friday.**

**You may pick up your boxed lunch at the back of the exhibit hall. Volunteers will be there to collect your ticket. Seating will be available in the exhibit hall, at the picnic tables outside, on benches in the convention center, and from 12:00 – 1:30 on Thursday and from 11:30 to 1:00on Friday at the tables under the escalator.**

# *AWARDS CEREMONY RECEPTION*

## The 42nd Annual SCCTM Business Meeting and Awards Ceremony

**Thursday,**

**4:45 pm in Ballroom A/B**

At the end of the meeting, drawings will be held for

FABULOUS door prizes

**You must be present to win!**

## Hors d'oeuvres will be served

**On the way into the meeting, fill up your plate and join your friends and colleagues at the banquet tables in the ballroom.**

# South Carolina Council of Teachers of Mathematics Anti-Harassment Policy

The South Carolina Council of Teachers of Mathematics (SCCTM) strives to provide a safe and welcoming conference and meeting environment, free from bias and intimidation for all members and participants. SCCTM has a zero-tolerance policy toward discrimination and all forms of harassment, including but not limited to sexual harassment. No form of discriminatory or harassing conduct by or towards any member, staff, speaker, attendee, vendor, volunteer or other person at SCCTM meetings, conferences, or workshops will be tolerated. SCCTM is committed to enforcing its policy at all levels within the council. Anyone who engages in prohibited discrimination or harassment will be subject to discipline, including warning the offender, up to and including expulsion from current and/or future conferences, meetings, or workshops and revocation of membership in the math council. No refunds will be granted to any attendee expelled from an SCCTM Conference, meeting, or workshop due to violations of this policy. Instances of harassment should be brought to the attention of the SCCTM Executive Director and/or SCCTM President, who will then meet and consult with other executive officers regarding a course of action. If you are being harassed, witness harassment, or have any other concerns, please contact a member of SCCTM Board immediately by visiting the registration desk or the headquarters room at the conference.

# SCCTM CONFERENCE CANCELLATION/REFUND POLICY

All SCCTM conference cancellations and requests for refunds must be made in writing as indicated below. Requests must be sent to the conference registrar/director. Requests including name, email address, reason for refund, details about original form of payment, and where to tender the refund need to be submitted to the SCCTM registrar. Telephone or email requests not including a completed/signed refund form will not be honored.

- **100% Refunds – With More than 30 Days Notice:** To receive a 100% refund, SCCTM must receive written requests more than 30 days prior to the first day of the conference.
- **50% Refunds – With 15 to 30 Days Notice:** Requests for refunds SCCTM receives within 15 to 30 days of the start of the conference, will be subject to a 50% refund.
- **No Refunds – With 14 or Fewer Days Notice:** Requests for refunds SCCTM receives with 14 or fewer days notice, prior to the start of the conference will not be eligible for a refund.
- **Emergency Illness or Death of Registrant or Immediate Family Member:** Refunds may be granted after a deadline if an attendee is unable to attend the conference due to a family death, illness, or other extraordinary circumstance. In such a circumstance, the SCCTM registrar/director must be contacted by letter that includes documentation.
- **Substitution Policy:** Registrants may send a substitute in their place in lieu of requesting a refund. Contact the SCCTM registrar by mail or at registration@scctmconference.org in the case of a substitute attendee. In order to receive the member conference rate, the substitute must be a current SCCTM member or join SCCTM.
- **Returned Check Policy:** If any checks are returned because of insufficient funds, SCCTM will charge a $25 fee. Registrants will also be required to pay the amount SCCTM is charged by the financial institution that returned the check. SCCTM reserves the right to refuse to honor future checks submitted by violators.
- **Membership Payment Refund Policy:** Membership payments cannot be refunded unless an overpayment was made.
- **Authors' Luncheon Payment Refund Policy:** Authors' Luncheon payments cannot be refunded unless an overpayment was made.

**SCCTM will refund conference fees as soon as possible after the conference has concluded.**

**SCCTM c/o Cindy Parker, Registrar**
Conference Refund Request
6 Sandalwood Lane Sumter, SC 29154
director@scctmconference.org