

**BUILDING
MATHEMATICAL
COMMUNITIES
TOGETHER**



AMTNYS
**68th Annual
Fall Conference**



November 2-3, 2018
Saratoga Springs

Featuring Keynote and Breakout Sessions by

Juli Dixon, PhD sponsored by Houghton Mifflin Harcourt

Michelle Rinehart sponsored by Texas Instruments



The Saratoga Hilton and Saratoga City Center

Saratoga Springs, NY

(#AMTNYS2018)

Lodging Information: The Saratoga Hilton,
534 Broadway, Saratoga, NY 12866

Make your reservation at the discounted group rate at:
www.amtnys.org (Annual Fall Conf., Lodging Information)

Conference Room Rate (Book by Oct. 11, 2018):

One King/ two Doubles: \$169.00 Junior Suite: \$199.00



AMTNYS Annual Conference Kickoff as we celebrate and honor the outgoing President Michael Siuta! (Thursday November 1 from 8:30-11:30)



In keeping with the 68th annual AMTNYS Fall conference theme of Building Mathematical Communities Together we will kickoff this theme and thank President Michael Siuta by having a get-together at Gaffney's located at 16 Caroline St, Saratoga Springs at **8:30 p.m.** All AMTNYS members and conference attendees are urged to attend this special kickoff event. (#AMTNYS2018)

Featured Speakers

Keynote: Michelle Rinehart sponsored by Texas Instruments



Michelle learns, serves, and teaches as a Secondary Math Consultant at Region 18 Education Service Center in West Texas. Her work focuses on procuring and providing leadership and learning opportunities for mathematics and computer science educators throughout her area. Michelle was the 2018 recipient of the Nita Beth Camp Legacy Award for a lifetime of service to mathematics and science teachers, a 2012 finalist for the Classroom Teacher of the Year award from the Texas Computer Education Association, and the 2009 Region 18 Gifted and Talented Rising Star Teacher of the Year. Michelle speaks nationally about topics in mathematics and computer science education, with a particular focus on conceptual understanding in secondary mathematics and building teacher leaders.

Keynote: Discussing Student Achievement Expectations & Cultivating Community Support

Breakout Session: Extending Math Talks: Intentional Talk Structures in Secondary Mathematics

Keynote: Juli Dixon sponsored by Houghton Mifflin Harcourt



Juli Dixon is professor of mathematics education at the University of Central Florida (UCF). Dr. Dixon is focused on improving teachers' mathematics knowledge for teaching so that they support their students to communicate and justify mathematical ideas. She is a prolific writer who has published numerous books, textbooks, and articles. Dr. Dixon delivers keynotes and other presentations throughout North America. She is co-author of Houghton Mifflin Harcourt's *Go Math* for K-8 Mathematics and AGA and Integrated Mathematics for High School. She is also co-author of *Making Sense of Mathematics for Teaching* book and video series. Especially important to Dr. Dixon is the need to teach *each and every* student. She often shares her personal story of supporting her own children with special needs to learn mathematics in an inclusive setting. Juli published *A Stroke of*

Luck: A Girl's Second Chance at Life with her daughter, Jessica Dixon.

Keynote: Fighting Fixed Mindsets: Five Classroom Culture Shifts for Mathematics Teaching and Learning

Breakout Session: Small Group, Big Gains: Strategies for Effective Pulled Small Group Instruction

Banquet Address: Keary Howard



Banquet: Make Every Math Minute Matter

As math educators we have the opportunity to create transformational differences in the lives of our students. Plan on an interactive examination of the tools, techniques, and strategies that can help make every minute matter in your mathematics classroom.

(Banquet ticket is required, \$25.00. All AMTNYS Members and Conference Attendees are strongly encouraged to attend this fun-filled evening of laughter and networking).



#AMTNYS2018

New York State Next Generation Math Standards Sessions with New York State Education Department (NYSED)






Representatives from both the Assessment and Curriculum departments will present updates on the implementation of the Next Generation Learning Standards for Mathematics (NGLS), including asking for your input into the design of the 3-8 and Regents exams. Also in attendance will be **Senior Deputy Commissioner Jhone Ebert**.

Schedule of Events: The 68th AMTNYS Annual Conference

Friday, November 2		
7:00am – 3:00pm	Registration (#AMTNYS2018)	Gallery
7:00am – 5:00pm	Commercial Exhibits	City Center D
8:00am – 5:00pm	Sessions & Mini-Courses (#AMTNYS2018)	Various Locations
8:00am – 9:00am	High School Level Meeting	City Center B
8:00am – 9:00am	Elementary Level Meeting	City Center C
9:15am – 10:15am	Keynote Address: Michelle Rinehart, sponsored by Texas Instruments	Saratoga Ballroom 1, 2, 3
10:15am – 10:45am	Coffee Break “Meet the Executive Board” sponsored by AMTNYS	City Center D
10:45am – 11:45am	EDR/DR/CC Luncheon	High Rock
10:45am – 11:45pm	Affiliates Luncheon	Restaurant
12:00pm – 1:00pm	NYSED sessions (appearance by Jhone Ebert)	Saratoga Ballroom 1, 2, 3
1:15pm – 3:15pm	Make-It & Take-It	City Center D
1:15pm – 3:15pm	Assembly Meeting (w/Business Mtg. 1:30-1:45)	Saratoga Ballroom 1, 2
2:15pm – 2:45pm	Coffee Break	City Center D
4:00pm – 5:00pm	Middle School Level Meeting	City Center B
4:00pm – 5:00pm	College Level Meeting	Phila
5:45pm – 6:30pm	Cocktail Reception Sponsored by National Geographic/Cengage/Big Ideas Learning	Saratoga Foyer
6:30pm – 8:30pm	Banquet and Address: Keary Howard	Saratoga Ballroom 1, 2
8:30pm – 10:30pm	Regional Social Sponsored by Texas Instruments	Saratoga Ballroom 3
10:30pm – 12:00am	President’s Social Sponsored by NYSUT	Saratoga Ballroom 3
Saturday, November 3		
7:00am – 2:00pm	Registration (#AMTNYS2018)	Gallery
7:00am – 4:00pm	Commercial Exhibits	City Center D
7:00am – 8:00am	Conference Chairs Breakfast	Restaurant
8:00am – 3:45pm	Sessions & Mini-Courses (#AMTNYS2018)	Various locations
9:15am – 10:15am	Elementary Level Collaborative Session	City Center B
10:15am – 11:00am	Coffee Break – Meet the NYS Master Teachers	City Center D
11:00am - 12:00pm	Keynote: Juli Dixon, sponsored by Houghton Mifflin Harcourt	Saratoga 1, 2, 3
12:15am - 1:15am	Middle Level Collaborative Session	City Center B
12:00pm – 2:00pm	Make-It & Take-It	City Center D
12:15pm – 1:15pm	Past President’s Luncheon	High Rock

1:30pm – 2:30pm	High School Level Collaborative Session	Saratoga Ballroom 1, 2
4:30pm – 5:30pm	President's Reception with President Caryl Lorandini	Northshire Bookstore
5:45pm – 7:45pm	Executive Board Meeting	Whitney
Sunday, November 4		
7:00am - 8:00am	Executive Board Breakfast	High Rock
8:00am - 11:00am	Executive Board Meeting	Whitney

Networking at the AMTNYS Conference

Saratoga Foyer	Saratoga Ballroom 3
<p>Friday, 5:45pm – 6:30pm Cocktail Reception Sponsored by National Geographic/Cengage/ Big Ideas Learning #AMTNYS2018</p> <p>Let us continue to build our Mathematical Communities before our Banquet. Come mingle with your colleagues and representatives from National Geographic Learning/Big Ideas Learning. <u>Come and share this social experience!</u></p> <div style="display: flex; justify-content: space-around; align-items: center;">   </div>	<p>Friday, 8:30pm – 10:30pm Regional Social Sponsored by Texas Instruments #AMTNYS2018</p> <p>Come network with your colleagues from around your region and across New York State! At no cost to you or your school district, enjoy dessert, music, prizes, and giveaways. The evening is filled with music, dancing, and fun. <u>You do not want to miss this fantastic event!</u></p> <div style="text-align: right;">  </div>

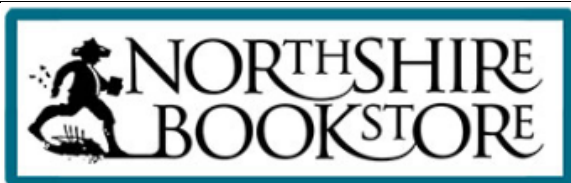
Saratoga Ballroom 1, 2

Friday, 6:30pm – 8:30pm

Reservations and Ticket are required (\$25.00)

All AMTNYS and Conference Attendees are strongly encouraged to attend the banquet for an amazing dinner and an opportunity to network.

This inclusive event is a perfect venue to network, learn more about AMTNYS initiatives, and collaborate with math professionals from across New York State. Cocktails and dinner are followed by remarks from AMTNYS President, Michael Siuta, an entertaining Keynote address by Keary Howard, the presentation of the AMTNYS Distinguished Award, and the passing of the gavel to President-Elect Caryl Lorandini.



President-Elect Caryl Lorandini would like to invite conference attendees to one last networking opportunity at Northshire Bookstore (424 Broadway) on Saturday November 3 from 4:30 – 5:30. A wonderful way to cap off this great event!

Other Important Conference Events

Scholarship Booth: Purchase AMTNYS clothing, gear, supplies, and other novelties in order to advertise and bring awareness to the association's mission, goals, and trajectory. In addition to AMTNYS products, the Scholarship booth will host a regional raffle with all proceeds directed toward the support and continuation of the scholarship program.

Treasure Hunt: Interact with the exhibits, cutting edge products, and the representatives to become eligible to win some much sought after products and offerings. **Please download a QR Code Reader in order to participate in the Treasure Hunt and to complete the final conference evaluation.**

Make-it & Take-it: Take a moment to internalize your professional learning and continuing education and recharge your creative talents by replicating and creating teacher-tested, hands-on activities and anchor charts.



2018 Student Poster Contest: Encourage your students to be creative and design a poster illustrating "Building Mathematical Communities Together!" The conference slogan/theme can be reworded/reworked as long as the poster captures the essence of the "Mathematical Communities" focus! Up to 12 entries per district. Prizes awarded in the categories of K-2, 3-5, 6-8, and 9-12. Completed poster designs must be postmarked by midnight September 30, 2018 and received by October 7. For official information, details, and rules, please go to www.amtnys.org.

~Continued this year~

Grade Level (Horizontal and Vertical) Sessions: Teachers, Content Specialists, and Leaders are encouraged to share their best practices, insights, techniques, and strategies that have created positive student outcomes. Please bring a lesson, project, and/or ideas to share or just come to ask and answer questions with fellow colleagues! **You do not want to miss this opportunity to collaborate and network!**

Registration Information

Full Conference Fee:	Members	Non-Members
Full Time Teacher	\$185	\$225
Retired	\$135	\$155
First Year Teacher	\$140	\$160
Full Time Student	\$50	\$70

One Day Conference Fee:	Members	Non-Members
Full Time Teacher (Fri Only)	\$115	\$155
Full Time Teacher (Sat Only)	\$105	\$145
Retired	\$85	\$105
First Year Teacher	\$90	\$110
Full Time Student	\$30	\$50

President's Gala and Banquet: \$25.00

1. Grilled Hangar Steak with Cabernet reduction.
2. Pan Seared Chicken with roasted apples and apple cider demi
3. Grilled Vegetables with soft polenta and tomato fondue- zucchini, summer squash, portabella, and eggplant

Assorted Rolls and Butter
Coffee and Tea

***Dessert will be served at the Regional Social Sponsored by Texas Instruments directly following the Banquet!**



All Members and Conference Attendees are Welcomed and Encouraged to attend! (Only \$25.00)

AMTNYS MEMBERSHIP			
Type of Membership	1 Year	2 Years	3 Years
Individual/Institutional	\$40	\$80	\$120
Retired	\$20	\$40	\$60
Full Time Student		\$20	
First Year Teacher (<i>Reduced cost for your first two years</i>)		\$20	

Register on-line at: www.AMTNYS.org

Pre-Registration will close on October 27, 2018.

All refund requests must be submitted in writing and received by October 23, 2018. Any requests after this date must be approved by the President, Vice President, and Treasurer. Requests must be sent to:

Before October 23, 2018 – Daniel Mattoon, AMTNYS Data Manager, dmatton@niskyschools.org

After October 23, 2018 – Sean Flansburg, AMTNYS Vice President and Conference Coordinator, seanmf9@yahoo.com

There is a \$10.00 non-refundable processing fee on all registrations. AMTNYS dues are non-refundable



Preview of Sessions

This conference will feature over 130 sessions, which include:

Friday Ongoing session	General
Giant Soma Cubes Beth Walker	General
Friday Mini Courses (2 ¼ hours)	
MATH = FUN, Part 2 Sue Summerfield	6 - 8
MATH = FUN, Part 1 Sue Summerfield	6 - 8
ONE Technology for All of STEAM! Robyn Poulsen	6 - 12
Statistics for the Algebra 2 Teacher, Part 1 Mindy LiBassi	9 - 12
Bringing Math To Life Casey Gannon	General
Favorite Games, Tasks and Problems from 50 Years of Teaching Mary Altieri	Pre K - 5
Friday Sessions (1 hour)	
The CPA Approach to Multiplication David Canfield	3 - 5
How Incorporating Math Gamification Impacts Learning – Prodigy Math Lianna LaChappelle	3 - 5
The Power of Mathematical Models: How to Build Multiplicative Reasoning in Diverse Populations Ellen McCrum	3 - 5
Rich Mathematical Tasks for the 3-5 Classroom Anne Montreal	3 - 5
NYSED - 3-8 Assessment Discussion	3 - 8
Rich Tasks that Promote Critical Thinking and Coherent Discourse Hoyun Cho	6 - 8
Shrinky Dinks meets STEM Melissa Hirt	6 - 8
Middle Level Meeting Jill Mattis	6 - 8
Ammie’s Awesome Punch, part Ginger Ale, part Cranberry Juice Rudy Neufeld	6 - 8
Rich Tasks 102: The Journey Continues! Anne-Marie Pasquale	6 - 8
Rich Tasks 101: Let the Journey Begin! Anne-Marie Pasquale	6 - 8

Exploring STEM through the Game of Hockey Kassandra Winne	6 - 8
What's 'Tude Got to Do With It? Corrie Burdick	6 - 12
Using Open Middle Problems to Promote the Mathematical Practices Denea Czaplá	6 - 12
Strategies for Working with English Language Learners in MS and HS Math Cornelis de Groot	6 - 12
Classroom Routines that Foster Success Kevin Dorey	6 - 12
Rethinking Homework, Grading & What An Average Means Kelley Hawksley	6 - 12
Coding and Geometry - A Winning Combination Judy Hicks	6 - 12
Use What I Know To Teach What I Don't: Asset Based Urban Education Nicole Newman	6 - 12
The Manifest Framework: Using Simulations to Teach Functions Concretely Harry O'Malley	6 - 12
IGNITE Math Educators Talk Valerie Pond	6 - 12
Question Everything: Enhance Your Questioning Techniques For Greater Classroom Discussions Brad Posnanski	6 - 12
How Contest Problems Can Enrich Your Classroom George Reuter	6 - 12
Extending Math Talks: Intentional Talk Structures in Secondary Mathematics Michelle Rinehart	6 - 12
Activities and Projects in a Secondary Classroom Nicole Semerano	6 - 12
Interactive Notebooks in the Secondary Math Class Karen Swift	6 - 12
Sampling and Statistics Diane Broberg	9 - 12
Coding in the Algebra Classroom Kayla Cappuccio	9 - 12
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Number Talks in the High School Classroom Tammy Casey	9 - 12
The Rover Cafe Amy Furletti	9 - 12
Lessons with Potential from Teachers with Potential Keary Howard	9 - 12
6 in 60 Jason Irwin	9 - 12
Seeing is Believing - Making Mathematical Thinking Visible Jennifer Kim	9 - 12
Blood Spatter Trigonometry Signe Knutson	9 - 12
Creating Math-Science Connections Through Science Labs Dina Kushnir	9 - 12
I Didn't Know My Graphing Calculator Could Do That! Dana Morse	9 - 12
Integrating Computer Science and Mathematics Peter Palij	9 - 12
High School Level Meeting Peter Palij	9 - 12
Using Nspire to Inspire Students through a Regents Joseph Perlman	9 - 12
Build Math Practices and Connect Big Ideas in Algebra I Elizabeth Ramirez	9 - 12
Annual Meeting of Board of Governors of the NYS Mathematics Honor Society Bill Shaul	9 - 12
Got PBL? Varada Vaughan	9 - 12
NYSSED - Regents Assessment Discussion 9 - 12	
Finding All the Integral Solutions of Any Linear Diophantine Equation John Titterton	6 - College
Engage-ify Your Calculus Class! Caitlyn Girona	9 - College
How Long Is the Coast of Britain? Benjamin Kirk	9 - College
Turn Up The Volume Lynda Vincent	9 - College
College Level Meeting Teodora Cox	College
Make Geometry Come Alive with the TI Rover Tammy Casey	General
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How To Not Flip Out When Flipping Rachel Linehan	General
Growth Mindset Mathematics - Building Mathematics Communities Mary Ann Nickloy	General
Ideas for Math class on Twitter: Sharing, Exchanging or Lurking Robin Schwartz	General
Digital Formative Assessment: Moving from Uh-Oh to Aha! Paul Volkert	General
High-Impact Strategies in the Math Classroom: Bringing John Hattie's Research to Life Kelsea Whittemore	General
NYSSED General	
Stop Counting Down! Making Subtraction Accessible Heidi Bromley	Pre K - 2
Elementary Level Meeting Christine Armstrong-Gabler	Pre K - 5
Learning to Love Math: Events that Help Build a Strong Math Community and Help Students Learn to Love Math! Lynda Brennan	Pre K - 5
Math Storytelling: A Powerful Way to Engage Students and Promote Math Talk Lynda Brennan	Pre K - 5
Implementing Math Workshop in the K-5 Classroom Brenda Konicke	Pre K - 5
Peer Coaching in the Cognitively Demanding Math Classroom Kristin Munrett	Pre K - 5
Introduction to Number Talks Denise Simone	Pre K - 5
W.A.I.T. - Why Am I Talking? Engaging Students in Mathematical Discourse Randy Swift	Pre K - 5
Formative Assessment: Assessment For Learning Saffron VanGalder	Pre K - 5
More Choice, More Voice Kurt Whited	Pre K - 5
Saturday Ongoing session General	
Giant Soma Cubes Beth Walker	General
Saturday Mini-Courses (2 ¼ hours)	
Teaching the Standards Through Rich Tasks Abby Gordon	6 - 12

Using GeoGebra's Graphing Calculator, Geometry, & 3D Apps to Foster Discovery Learning Timothy Brzezinski	9 - 12
The Guided Math Classroom Fred Reynolds	Pre K - 2
Saturday Sessions (1 hour)	
Creating Authentic Counting & Measuring Activities for Access & Success Ellen Clay	3 - 5
From Wedges to Degrees: Learning How to Measure Angles Frank Gardella	3 - 5
Strategies for Facilitating Rich Conversations in the Discourse-Driven Mathematics Classroom Tyrone Holmes	3 - 5
Elementary Geometry with GeoGebra Irina Lyublinskaya	3 - 5
Lessons and Activities for Deeper Conceptual Understanding of Place Value Jim Matthews	3 - 5
Rich Mathematical Tasks for ALL Middle School Students Andrea Bean	6 - 8
Sprinkle, Don't Dump: Keeping Up with Grade Level Content While Filling Learning Gaps Laura Coleman	6 - 8
Start Your Students' Engines Maria Michelsson	6 - 8
Share and Tell: Grades 6-8 Jamar Pickreign	6 - 8
Portfolio Assessment in Mathematics Michelle Pollack	6 - 8
There is No "I" in Team: Strategies for Collaboration in Math Jocelyn Dunnack	6 - 12
Put Down The Syllabus! Transforming Your First Days of Math Class Caitlyn Gironda	6 - 12
Exploring & Creating Geometric Solids Mark Kaercher	6 - 12
Using Formative Assessment Lessons in English Language Learner Classrooms Elizabeth Kent	6 - 12
Equitable Mathematics Acceleration Practices Diana Kolhoff	6 - 12
Interactive Notebooks and the Flipped Classroom Lisa McLeod	6 - 12
Music Made With Code Dana Morse	6 - 12

Mindfulness and Reflective Meditations in the Mathematics Classroom Payal Patel	6 - 12
My Almost Perfect Mathematics Classroom Robyn Poulsen	6 - 12
Getting Trig-y with the TI-Nspire Bobbie Bie	9 - 12
Engaging Activities for the High School Math Classroom Bobbie Bie	9 - 12
Project Based Statistics Marcy Boyd	9 - 12
WWW.WECANDOTHIS! Anne Bratt	9 - 12
Parametrics and 3D Graphing William Caroscio	9 - 12
Making Sense of Confidence Intervals Sabine Erickson	9 - 12
Modeling the Story of Geometry Ellen Falk	9 - 12
Implementing Financial Literacy David Fields	9 - 12
Dead Time Deterrents: Stealable Math Time Fillers That Work Keary Howard	9 - 12
EVT (Finnish for: "How am I supposed to know") Rachel Linehan	9 - 12
Rocket Math Power! Taking Pre-Calculus off the Paper and into the Sky! Jody Magner	9 - 12
Your Students Can Earn College Credit by Taking Computer Science in High School Jim Matthews	9 - 12
Common Core Lessons from Beaver River Kathy Noftsier	9 - 12
Exploring Strategies for Authentic Experiential Learning Seth O'Bryan	9 - 12
Coding in Regents Math? Yes! Brad Posnanski	9 - 12
Share and Tell: High School Laurie Rosborough	9 - 12
Recursion Through Manipulatives and Pictures Ray Siegrist	9 - 12
Putting a Spin on Sine Curves Tracy Smith	9 - 12
An open-access online question generator with fully worked solutions Michael Jennings	6 - College

Blind Engagement Amanda Pacanowski	6 - College
The Imperative of Definition David Dickerson	9 - College
Student Centered Activities for Calculus Angela Netoskie	9 - College
Solving Problems with Calculus, Not Calculus Problems Robert Rogers	9 - College
"MyOpenMath" as an Open Education Resource Tanvir Prince	College
Small Group, Big Gains: Strategies for Effective Pulled Small Group Instruction Juli Dixon	General
Make Homework a Better Learning Experience with HW Videos Tom Gazda	General
Using Technology to Support Collaboration and Communication Jennifer Harriton-Wilson	General
Revolutionize Homework! Learn how Teachers use Technology for Meaningful and Effective Practice Cristina Heffernan	General
Update on Critical Issues Affecting our Profession Theresa McSweeney	General
Bridging Culture with Mathematics: An Ethnomathematics Approach in the Classroom Alesia Moldavan	General
Chip Trading in the "Land of 'Ns": A Foundation for Place Value, Base Ten Operations, and More Scott Schaefer	General
8 Page Books - Emergent Readers Meet Math and Science Standards Scott Schaefer	Pre K - 2
Students Struggling with Grade 2 Concepts? How the Meter Stick Makes it Stick Marianne Strayton	Pre K - 2
A Framework for Effectively Meshing Rigorous Tasks, Curriculum, and Timelines Kevin Davis	Pre K - 5
Trauma-Informed Math Education Suzy Koontz	Pre K - 5
Formative Assessment with Web-Enabled Devices in Elementary Mathematics Classroom Irina Lyublinskaya	Pre K - 5
Moving and Shaking to Master Math Sue McMillen	Pre K - 5
Share and Tell: Grades K-5 Jamar Pickreign	Pre K - 5

Picture It! Launching Fractions (and Other Topics) through Engaging Images Marianne Strayton	Pre K - 5
Meet the Master Teachers	General

Conference Notes:

